



THE VOICE  
FOUNDATION

Leaders in Voice Research,  
Medicine, Science & Education

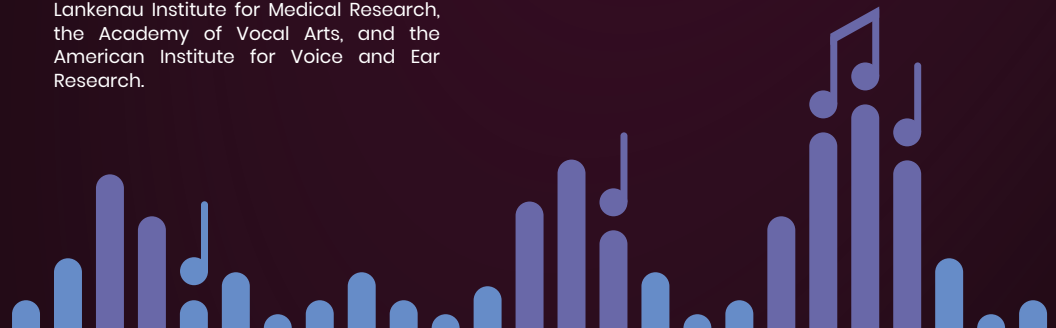
# 51<sup>st</sup> THE ANNIVERSARY SYMPOSIUM Care of the Professional Voice



**June 1–5, 2022**

Jointly provided by The Voice Foundation and the American College of Surgeons in collaboration with Temple University, Drexel University College of Medicine, Lankenau Institute for Medical Research, the Academy of Vocal Arts, and the American Institute for Voice and Ear Research.

**The Westin Hotel**  
99 S. 17th Street  
Philadelphia, PA 19103



[voicefoundation.org](http://voicefoundation.org)

## CONTINUING MEDICAL EDUCATION CREDIT INFORMATION

### Accreditation

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of American College of Surgeons and The Voice Foundation. The American College of Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

### AMA PRA Category 1 Credits™

The American College of Surgeons designates this Other activity (hybrid format-live and enduring) for a maximum of 25.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



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### PROGRAM OBJECTIVES

This activity is designed for The Voice Foundation. Upon completion of this course, participants will be able to.....  
Gain familiarity with recent technological, scientific and clinical advances in the study of the human voice;  
Expand perspectives in the diagnosis and treatment of voice disorders and techniques for vocal fold surgery;  
Be able to apply various voice examinations/evaluations, therapy and teaching techniques;  
Foster dialogue and cooperation among the various disciplines concerned with the care of the professional voice;  
Gain interdisciplinary information about clinical and research aspects of neurolaryngology; and,  
Determine the relationship between normal and abnormal voice production and the various means of studying the voice

### DISCLOSURE INFORMATION

In accordance with the ACCME Accreditation Criteria, the American College of Surgeons must ensure that anyone in a position to control the content of the educational activity (planners and speakers/authors/discussants/moderators) has disclosed all financial relationships with any commercial interest (termed by the ACCME as "ineligible companies", defined below) held in the last 24 months (see below for definitions). Please note that first authors were required to collect and submit disclosure information on behalf all other authors/contributors, if applicable.



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Axelle Felicio-Briegel		Part of the research team at Spiggle & Theis - received funding for research.
Aaron Ziegler		Wellness Group for Voice, Speech, and Swallowing, LLC as employee and Co-owner - Salary, Profit sharing
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Matthias Echernach		Employee of Children's National Hospital, DC. - Salary received
		Presenter for Spiggle Theis Fat Harvesting System, received honorary. Consultant of Jazz Pharmaceuticals, Inc. - In-Kind trial drug donation Member of Scientific Advisory Board of Tourette Association of America
Kristina Simonyan		Consultant of Abbvie - Consultant fees
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## Grant Acknowledgement

The Voice Foundation wishes to thank Plural Publishing for their ongoing support through educational grants.

Full Faculty  
Disclosure List



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# ASHA CONTINUING EDUCATION UNITS

**DISCLOSURE INFORMATION:** For the complete disclosure of all relevant financial and non-financial relationships. [Please Click Here](#)

## GRADUATE CREDIT

It may be possible to obtain graduate credit through independent study from your University's Dept. of Speech-Language Pathology. Registration must be completed prior to the first day of the Symposium. **Program Objectives** for Speech Language Pathologists [Click Here](#)



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## NEEDS ASSESSMENT

The specialty of voice care involves rapidly advancing technology, new medical and scientific knowledge, and constant advancement in patient care. State-of-the-art symposia and courses are essential for interdisciplinary communication and education. For fifty years The Voice Foundation's Annual Symposium has fulfilled these needs for the international community.



SCAN ME

# Welcome to the 51<sup>st</sup> Annual Symposium

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### YOUNG LARYNGOLOGISTS

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*with bios and photos.  
All authors listed.*



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*Consult the Faculty List  
for a complete list of  
presenter and author  
degrees*

##### GLOSSARY

for help at the tutorials

**Professional Voice  
The Science and Art of  
Clinical Care  
4th Edition**

*by Robert Sataloff, MD,  
DMA*



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**Log-in to Virtual Content**  
**<http://voicefoundation.org/symposium2022>**

The Annual Symposium is possible through  
the work of many people behind the scenes.

Our Thanks to: THE PENTA STAFF  
The Board of Directors, Advisory Board Members,  
JOV Editorial Board, Awards Committee Members  
Volunteers, Donors, and Attendees

## WEDNESDAY JUNE 1, 2022

- 1:00p Registration Opens (*Independence Hall*)
- 200p Welcome  
The Westin Philadelphia Hotel, Grand Ballroom, Salon II  
*Robert T. Sataloff, MD, Chairman, The Voice Foundation*
- 2:15p Anatomy and Physiology of Phonation: An Overview  
*Robert T. Sataloff, MD*
- 3:00p Production and Perception of Voice: An Overview  
*Sona Patel, PhD, Johan Sundberg, PhD*
- 4:00p Coffee Break
- 4:30p Production and Perception of Voice: An Overview (cont.)  
*Ronald S. Scherer, PhD, Johan Sundberg, PhD, David Eddins, PhD, Linda Carroll, PhD*
- 6:30p Question and Answer
- 7:00p Adjourn

## THURSDAY, JUNE 2, 2022

7:20 Meeting of the Quintana Voice Research Award Committee  
The Board Room

7:30a Registration Opens (*Independence Hall*)

8:00a Introduction and Welcome (Grand Ballroom, Salon II)  
*Robert T. Sataloff, MD, Chairman, The Voice Foundation*

## Basic Science Session I (8:12am - 9:30am)

**Session I: Impact Stress, Source-Tract Interaction, and Perception of Strain**

**Chair: Johan Sundberg, PhD**

**The Westin Philadelphia Hotel, Grand Ballroom, Salon II**

- 8:12a Parametric Tuning of a Vocal Production Model to Estimate Impact Stress  
*Carlos Alberto Calvache Mora, MSc, Andrés Guatibonza, BS, Leonardo Soláque, PhD, Alexandra Velasco, PhD, Lina Peñuela, MSc*
- 8:24a The Effect of Nonlinear Source-Filter Interaction on Aerodynamic and Projected Glottal Area Measures in a Synthetic Model of the Vocal Folds and Vocal Tract  
*Nicholas May, PhD, Ronald C. Scherer, PhD*
- 8:36a Disturbances of Fundamental Frequency During Glissandi through a Long Tube  
*Johan Sundberg, PhD, Filipa M.B. La, PhD, Svante Granqvist, PhD*
- 8:48a Sharpening Our Ability to Quantify Vocal Strain: Success with a Computational Model of Spectral Sharpness and A Novel Matching Stimulus  
*Supraja Anand, PhD, Yeonggwang Park, PhD, Sophia M. Gifford, Rahul Shrivastav, PhD, David A. Eddins, PhD*
- 9:00a Panel for Session I *Johan Sundberg, PhD*  
*Carlos Alberto Calvache Mora, MSc, Nicholas May, PhD, Supraja Anand, Adam Rubin, MD, Jackie Gartner-Schmidt, PhD*

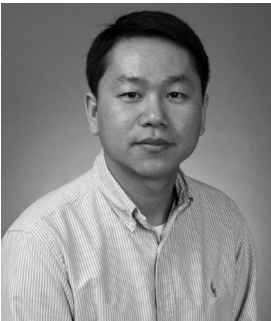
## THURSDAY, JUNE 2, 2022

Quintana Research Award Lecture 9:30am—10:00am

Chair: Robert T. Sataloff, MD  
The Westin Philadelphia Hotel, Grand Ballroom, Salon II

### An Update on the Mechanics of Human Voice Production and Control *Zhaoyan Zhang, PhD*

**Dr. Zhaoyan Zhang** is a Professor of Head and Neck Surgery at the University of California, Los Angeles. He received his PhD in Mechanical Engineering from Purdue University in 2002, with his dissertation on the aeroacoustics of human voice production. He then spent two years at the University of Maryland, College Park for his postdoctoral research on vocal tract acoustics. In 2004, he joined the Division of Head and Neck Surgery at UCLA to continue his research on human voice production and control. His research focuses on understanding how changes in vocal fold physiology affect voice production and how to infer vocal fold physiology from the produced voice, toward clinical and speech technology applications. He is a Fellow of the Acoustical Society of America, and an Associate Editor and Coordinating Editor for the Journal of the Acoustical Society of America.



#### Scan Me

To see the past winners and for more information about the Quintana Award



10:00a Coffee Break

### Basic Science Session II (10:30am - 11:30pm)

#### Session II: Air Pressures in SOVT, Emotion, Inverse Filtering, Vocal Fold Motion, and Philosophy of Science

Session Chair: Ronald C. Scherer, PhD

The Westin Philadelphia Hotel, Grand Ballroom, Salon II

- 10:30a Ratio of Oral Pressure to Lung Pressure as a Function of Straw Diameter in SOVT Phonation  
*Lynn Maxfield, PhD, Ingo R. Titze, PhD*
- 10:42a Hearing Other's Emotions: An fMRI Pilot Study of the Neural Activities Underlying Production and Perception of Emotional Voices  
*Gláucia Laís Salomão, PhD*
- 10:54a Modeling and Estimation of Neck-Surface Acceleration and Subglottal System with an ARMA-Based Inverse Filter  
*Víctor M. Espinoza, PhD, Juan P. Cortés, PhD, Matías Zañartu, PhD, Daryush D. Mehta, PhD, Robert E. Hillman, PhD, Gabriel A. Alzamendi, PhD, Juan I. Yuz, PhD*

## THURSDAY, JUNE 2, 2022

## Basic Science Session II Continued (10:00am - 12:00pm)

- 11:06a Synchronous 3D Imaging of Medial and Superior Vocal Fold Surfaces in Hemi-Larynges  
*Reinhard Veltrup, MSc, Susanne Angerer, Andreas Kist, PhD  
Tobias Zillig, MSc, Julian Zilker, MSc, Michael Döllinger, PhD  
Marion Semmler, PhD*
- 11:18a The Science of Information Transfer, Uncertainty, and Intelligence  
*Ingo R. Titze, PhD*
- 11:30a Panel for Session II  
*Lynn Maxfield, PhD, Gláucia Laís Salomão, PhD, Víctor M. Espinoza, PhD,  
Reinhard Veltrup, MSc, Ingo R. Titze, PhD, Tom Carroll, MD,  
Kittie Verdoline Abbott, PhD*

- 12:00p Lunch Break  
*Meeting of Journal of Voice Editorial Board  
Chair: Robert T. Sataloff (12:00 - 1:00p)  
Georgian Room*

## Keynote Presentation 1:30pm—2:30pm

## Laryngeal Dystonia: A Research Journey

*Kristina Simonyan, MD, PhD, Drmed*

Dr. Kristina Simonyan is an Associate Professor of Otolaryngology – Head and Neck Surgery at Harvard Medical School, Director of Laryngology Research at Massachusetts Eye and Ear Infirmary, Associate Neuroscientist at Massachusetts General Hospital, and Director of Dystonia and Speech Motor Control Laboratory. Dr. Simonyan received her medical degrees (MD and Drmed) from Yerevan State Medical University in Armenia and Georg-August University in Göttingen, Germany, as well as a PhD degree in Neurobiology from the University of Hannover, Germany. She completed her residency in otolaryngology and clinical research fellowship in neurolaryngology and neuroimaging. Dr. Simonyan studies the neural mechanisms of healthy and diseased speech production and other complex voluntary motor behaviors. Her clinical research program is focused on focal dystonia, a debilitating neurological disorder causing involuntary muscle contractions in different body regions, including vocal folds. Her methodological approaches bridge brain imaging, computational neuroscience, machine learning, genetics, and clinical trials and are geared toward the identification of objective diagnosis, prediction of risk, and treatment of dystonia. Her recent studies have mapped the large-scale neural architecture underlying speech production and its impairments in laryngeal dystonia and other focal dystonias. This work has led to the identification of a neural biomarker of laryngeal dystonia as well as the development of new therapeutic options for the treatment of this disorder. Her research is currently supported by the National Institutes of Health (NIDCD and NINDS), Department of Defense, Jazz Pharmaceuticals, and Amazon Web Services.



## THURSDAY, JUNE 2, 2022

### Basic Science Session III (2:30pm - 4:00pm)

#### Session III: High Speed Videendoscopy – Segmentation, Motion Variability, Asymmetry, Laryngeal Dystonia

Session Chair: Johan Sundberg, PhD

The Westin Philadelphia Hotel, Grand Ballroom, Salon II

- 2:30p Investigating the Contribution of Spatial and Temporal Redundancy to the Accuracy of Spatial Segmentation of High-Speed Videendoscopy  
*Hamzeh Ghasemzadeh, PhD, David S. Ford, PhD, Maria E. Powell, PhD, Dimitar D. Deliyski, PhD*
- 2:42p Nyquist Plot Parametrization for Quantitative Analysis of Vibration of the Vocal Folds  
*Tomás Arias-Vergara, MSc, Tobias Schraut, BS, Khairy Anuar Mohd, Khairuddin, PhD, Michael Döllinger, PhD*
- 2:54p Influence of Perspective Distortion in Laryngoscopy on 2D/3D Symmetry Parameters  
*Marion Semmler, PhD, Reinhard Veltrup, MSc, Jann-Ole Henningson, MSc, Stefan Kniesburgs, PhD, Anne Schützenberger, MD, Michael Döllinger, PhD*
- 3:06p Automated Representation of Vocal Fold Dynamics in Adductor Spasmodic Dysphonia During Connected Speech in High-Speed Videendoscopy – A Deep Convolutional Network  
*Ahmed M. Yousef, MS, Dimitar D. Deliyski, PhD, Stephanie R.C. Zacharias, PhD, Maryam Naghibolhosseini, PhD*
- 3:18p Automated Measurements of Glottal Attack and Offset Time in High-Speed Videendoscopy During Connected Speech for Patients with Adductor Spasmodic Dysphonia  
*Ahmed M. Yousef, MS, Dimitar D. Deliyski, PhD, Stephanie R.C. Zacharias, PhD, Maryam Naghibolhosseini, PhD*
- 3:30p Panel for Session III  
*Panel: Hamzeh Ghasemzadeh, PhD, Thomas Arias-Vergara, MSc, Marion Semmler, PhD, Ahmed M. Yousef, MS, Kenneth Altman, MD, Linda Carroll, PhD*
- 4:00pm-4:30pm Coffee Break

### Poster Session (4:00pm - 5:30pm)

Session Chair: Ronald C. Scherer, PhD

The Westin Philadelphia Hotel, Grand Ballroom, Pre-function Hall

- P1 Perceptions of Health Monitoring through Smartphone Technology: A Pilot Study in Patients with Chronic Cough**  
*Lauren J. Humpert, BS, Brittany N. Fletcher, CCC-SLP, Aaron D. Friedman, MD, Sudip Vhaduri, PhD, Victoria McKenna, PhD*
- P2 Role of Famotidine and Other Acid Reflux Medications for SARS-CoV-2: A Pilot Study**  
*Bailey Balouch, BS, Swetha Vontela, MS, Heather Yeakel, BS, Ghiath Alnouri, MD, Robert T. Sataloff, MD*
- P3 A Scoping Literature Review of Relative Fundamental Frequency in Individuals With and Without Voice Disorders**  
*Kelly E. Carraro, BS, Courtney L. Kendall, MA, Melissa Previtera, MLIS, Jennifer M. Vojtech, PhD, Victoria S. McKenna, PhD*

## THURSDAY, JUNE 2, 2022

### Poster Session 4:00pm - 5:30pm

- P4 Degree of Change in Self-Perceived and Acoustic Voice Quality Following Voice Therapy in Patient Populations Seen in a Private Practice Voice Clinic**  
*Zoë Thijs, PhD, Christopher, Watts, PhD*
- P5 Comparison of Cepstral Peak Prominence Methods with and without Voice Detection using Praat**  
*Lauren Colletti, MA, Elizabeth Heller Murry, PhD*
- P6 Effect of Cognitive Load on Voice Acoustics in Individuals with Hyperfunctional Voice Disorders**  
*Kimberly L. Dahl, SLP, Cara E. Stepp, PhD*
- P7 Spectral Aggregate of the Fundamental Frequency and its Relationship to the Primary Acoustic Features of Adductor Laryngeal Dystonia**  
*Katherine L. Marks, PhD, Taylor F. Feaster, BA, Sarah Baker, CCC-SLP, Manuel Díaz Cádiz, Philip C. Doyle, PhD, Cara E. Stepp, PhD*
- P8 The Effect of Semi-Occluded Vocal Tract Exercises on the Laryngeal Function: A Systematic Review**  
*Iris Meerschman, PhD, Evelein D'haeseleer, PhD, Kaat Pieters, MSc, Anke Adriaansen, MSc, Clara Leyns MSc, Imke Kissel, MSc, Kristiane Van Lierde, PhD*
- P9 Great Contemporary Singers On Great Contemporary Singing: A Qualitative Study of Terminology Used by Singers of Popular Music**  
*Warren Freeman, MM*
- P10 Intercultural Perception of Emotions from Voice**  
*Reese Holahan, BS, Bridget Anne Russell, PhD*
- P11 Clinical Cutoff Scores for an Acoustic Index of Vocal Hyperfunction that Combines Relative Fundamental Frequency and Cepstral Peak Prominence**  
*Mara R. Kapsner-Smith, MS, Manuel E. Díaz-Cádiz, MS, Jennifer M. Vojtech, PhD, Daniel P. Buckley, MS, Daryush D. Mehta, PhD, Robert E. Hillman, PhD, Lauren F. Tracy, MD, Jacob Pieter Noordzij, MD, Tanya L. Eadie, PhD, Cara E. Stepp, PhD*
- P12 Experiences of Speech-Language Pathologists in the Rehabilitation of Unilateral Vocal Fold Paralysis**  
*Imke Kissel, MSc, Evelien D'haeseleer, PhD, Iris Meerschman, PhD, Eline Wackenier, Kristiane Van Lierde, PhD*
- P13 ~~SEE P9 -Great Contemporary Singers On Great Contemporary Singing: A Qualitative Study of Terminology Used by Singers of Popular Music~~**  
~~*Warren Freeman, MM*~~
- P14 Influence of Distances in Choir Singing in Professional Boys Choirs**  
*Marie Köberlein, MA, Jonas Kirsch, MSc, Laila Hermann, MD, Bogac Tur, MSc, Michael Döllinger, PhD, Stefan Kniesburgs, PhD, Matthias Echternach, MD*
- P15 Effects of Speech Therapy for Transgender Women: a Systematic Review**  
*Clara Leyns MSc, Tine Papeleu, Peter Tomassen, Guy T'Sjoen, Evelein D'haeseleer, PhD*
- P16 The Comprehensive Voice Rehabilitation Program and Electrostimulation in Popular Singers with Behavioral Dysphonia**  
*Barbara Lopes, MSc, Marco Aurélio Rocha Santos, PhD, Renata Cristina Cordeiro Diniz Oliveira, MSc, Ana Cristina Cortes Gama, PhD*
- P17 Intercultural Perception of Emotions from Voice**  
*Leonardo Lopes, PhD, Estevão Silvestre Sousa, MS, Ronei Marcos Moraes, PhD*
- P18 ~~Validation of the Dysphonia Acoustic Index (DAI) as a Tool for the Assessment of Patients with Voice Disorders~~**  
~~*Leonardo Lopes, PhD, Vinicius Jefferson Vieira, PhD*~~
- P19 Effects of Sung and Spoken Production of Intervocalic /I/ on Formant Frequencies**  
*Reese Holahan, BA, Bridget A Russell, PhD*



**Poster Session 4:00pm - 5:30pm**

- P20 Surface EMG of Extrinsic Laryngeal Muscles During Phonation in Both Males and Female Young Adults**  
*Sai Aishwarya Ramani, MSc, Radish Kumar Balasubramanian, PhD, Eric J. Hunter, PhD, Rahul Krishnamurthy, MSc*
- P21 Transgender People: Vocal Approach in Chile and Argentina Nowadays Voiced Whistle: Preliminary Protocol to Enhance Appropriate Production**  
*Celina Malebran B. Mello, SLP, Virginia Zangroniz, SLP*
- P22 Moved to Virtual**
- P23 Clinical Cutoff Scores for an Acoustic Index of Vocal Hyperfunction that Combines Relative Fundamental Frequency and Cepstral Peak Prominence**  
*Ahmed Nagy, MD*
- P24 Pediatric Dysphonia: Effects of Vibratory Source on Auditory-Perceptual and Bio-Inspired Computational Measures of Voice Quality**  
*Yeonggwang Park, PhD, Susan Baker Brehm, PhD, Lisa N. Kelchner, CCC-SLP, Barbara D. Weinrich, PhD, Kevin McElfresh, CCC-SLP, Supraja Anand, PhD, Rahul Shrivastav, PhD, Alessandro de Alarcon, MD, David A. Eddins, PhD*
- P25 Relation Between Fundamental Frequency and Airflow Modulations During Vocal Bleating While Singing Diatonic Scales: A Pilot Study**  
*Ashley Platek, Molly Baxter, Addison Bosscher, Jana Feuerstein, Sri Nandamundi, PhD, Ronald C. Scherer, PhD*
- P26 VoceVistaVideo Pro in the Vocal Pedagogy Classroom**  
*Richard Davis, DM*
- P27 Location of Deep Brain Stimulation in Adductor Laryngeal Dystonia Affects Postoperative Voice Outcomes**  
*Rita R. Patel, PhD, S. Elizabeth Zauber, MD, Thomas C. Witt, MD, Stacey Halum, MD; Benjamin Anthony, MD, Kunal Gupta, MD*
- P28 How Does Our Voice Change as We Age? A Systematic Review and Meta-Analysis of Acoustic and Perceptual Voice Data from Healthy Adults Over 50 Years of Age**  
*Sandra Rojas, PhD, Eliana Kefalianos, PhD, Adam Vogel, PhD,*
- P29 Correlation between Voice Quality and Swallow Function in Patients with Parkinson Disorder**  
*Martha Peña Sanchez, MA, Fernando Delprado Aguirre, MS*
- P30 Training of Auditory-Perceptual Evaluation of Voice in Colombian Speech Therapists**  
*Martha Peña Sanchez, SLP, Fernando Delprado Aguirre, SLP*
- P31 A Lifelong Joy: Persistence and Retention Of Older African American Singers**  
*Carolyn Sebron, MM, David Meyer, DM, Hakeem Leonard, PhD, Brenda Jo Smith, DMA, Stephanie Standerfer, PhD*
- P32 Correlation of Physical Onset Type to Speed of Per Period Timbral Evolution**  
*Mark Tempesta, MM, kayla Gautereaux, MM, Ian Howell, DMA*
- P33 How Knowledgeable Are Musical Theatre Performers at California State University, Fullerton about Voice Services Offered by Voice-Specialized Speech-Language Pathologists?**  
*Jennifer Lynn Creamer, BA, Julia Lanham, BA, Parveena-Sigh, MA, Adriana Macias, BA*
- P34 Glottal Attack and Offset Time Comparison between Patients with Adductor Spasmodic Dysphonia and a Patient with Vocal Tremor in High-Speed Videendoscopy during Connected Speech**  
*Sarah Zenas, BS, Dimitar Deliyski, PhD, Stephanie Zacharias, PhD, Maryam Naghibolhosseini, PhD*
- P36 Procedural Fidelity to the CAPE-V Among Voice Clinicians: A Comparative Analysis**  
*Kathleen F. Nagle, PhD*
- P54 Virtual Vocal Health Education for Preservice Teachers: A Pilot Project**  
*Susan Brehm, PhD, Lydia Pion, MM, Renee Gottliebson, PhD*

## THURSDAY, JUNE 2, 2022

## Poster Session 4:00pm - 5:30pm

- P55** Neurodegenerative Diseases and the Voice: An Introductory Study of Vocal Pathologies in Multiple Sclerosis, Parkinson's Disease, and Huntington's Disease including Music Therapy Protocols for the Singing Teacher  
*Laura Pritchard, DMA*
- P56** Transnasal Humidified Rapid Insufflation Ventilatory Exchange (THRIVE) in Type 1 Thyroplasty  
*Amy Rutt, DO, Klaus Torp, MD, Zhou Li, MSc*
- P57** Surface EMG and Muscle Contributions During Phonation: Systematic Review Including SEMG Tasks, Measurement, and Analysis  
*Sai Aishwarya Ramani, MSc, Eric Hunter, PhD*



SCAN ME

## VIRTUAL POSTERS

- P22** Case Presentation: Rehabilitation of Bilateral Cordal Paralysis, Secondary to Prolonged Intubation in a Patient with SARS-CoV-2, with Left Posterior Cordectomy Using Laser Technique.  
*Gonzalo Inostroza Moreno PhD*
- P37** A Rare Cause of Persistent Hoarseness: Laryngeal Solitary Extramedullary Plasmacytoma  
*Zhongjing Pan, Dan Lu, PhD*
- P38** Understanding the Barriers in Seeking Professional Help for Voice-related Problems in Indian Trained Singers.  
*Revathi Raveendran, MSc, Yeshoda Krishna, PhD*
- P39** Voice and Mask Use in COVID 19  
*Paola Diaz Borrego, MD, Maria Del Campo Sanchez, MD, Marina Lopez Ruiz, SLP, Manuel Rodriguez-Piñero Duran, MD, Marta Montes Catedra, SLP*
- P40** The Relationship Between Voice Aspects and Stomatognathic System Aspects in Lyric Singers  
*Rafaela Lombas de Resende, SLP, Ana Carolina Constantini, PhD*
- P41** Voice Usage in Higher Education During COVID-19 Pandemic  
*Chloe Elyse Grover, Maria Claudia Franca, PhD, Valerie E. Boyer, PhD*
- P42** Case Report: Biomechanical Analysis of a Patient with Unilateral Vocal Fold Paralysis Before and After Vocal Fold Injection  
*Walter Orlando Tenesaca Pintado, MD, Isabel Maria Cardoso López, MD, Roberto Fernández Baillo Gallego de la Sacristanía, MD*
- P43** Vocal Profile and Vocal Training of Chilean Radio Broadcasters  
*Mauricio Alfaro-Calfullan, MS, Yuri Vega, MS, Patricio Soldivar, MS, Emily Kimball, PhD*
- P44** Study of Evaluation of Mucosal Wave Variation According To The Pitch by Biomechanical Analysis  
*Walter Orlando Tenesaca Pintado, MD, Isabel Maria Cardoso López, MD, Roberto Fernández Baillo Gallego de la Sacristanía, MD*
- P45** Biomechanical analysis of the voice, characterization method in Amyotrophic Lateral Sclerosis (ALS)  
*Paola Diaz Borrego, MD, Margarita Perez Bonilla, MD, Roberto Fernández Baillo Gallego de la Sacristanía, MD*
- P46** Detection of Amplitude Modulation Glottal Area Waveforms: Application for Detecting Disorders of Vocal Folds  
*Vinod Devaraj, MSc, Doria-Aaria Denk-Linnert, MD, Imme Roesner, MD, Philipp Aichinger, PhD*
- P47** Voice Usage in Higher Education During COVID-19 Pandemic  
*Chloe Elyse Grover, Maria Claudia Franca, PhD, Valerie E. Boyer, PhD*

## VIRTUAL POSTERS

- P48 What's in a Name? The Impact of Survey Title on Responses to the Vocal Fatigue Index**  
*Mary Gorham-Rowan, PhD, Richard Morris, PhD, Laura Lynn Mullis, MS*
- P49 Happy Talk: How Smiling Affects Laryngeal Movement and Pitch**  
*Gillian de Boer, PhD, Donald Derrick, PhD, Murray Schellenberg, PhD, Bryan Gick, PhD*
- P50 Outcomes of Traditional Voice Therapy With Cognitive Therapy Versus Traditional Voice Therapy for the Management of Functional Voice Disorders: A Systematic Review**  
*Heidi Gray, SLP, Leah Coman, SLP, Sarah Thorning, Elisabeth Cordell, PhD, Kelly A. Weir, PhD*
- P51 Comparison of Vocal Fatigue between School Teachers and College Faculty in South India**  
*Ceana Mariya Paul, MSc, K. Yeshoda, PhD*
- P52 Investigating the Effectiveness of Tele-therapy in Treating Voice of an Individual with Unilateral Vocal Fold Paralysis Secondary to Guillain Barre Syndrome: A Case Study**  
*Jophia Sunny, SLP, Ketaki Vasant Phadke, SLP*
- P53 Identification of Vocal Fatigue in Teachers through Biomechanical Voice Analysis**  
*Sandra Corvo, Roberto Fernandez-Baillo, PhD*
- P58 Objective Assessment of Pushing Exercises on Glottic Tension and Strength**  
*Sandra Corvo, Roberto Fernandez-Baillo, PhD*

5:30p Dinner (on your own)



## NEW YORK SINGING TEACHERS ASSOCIATION

*Educating Voice Professionals Worldwide Since 1906*

### NYSTA Supports The Voice Foundation on its 51<sup>st</sup> Anniversary Symposium

Available live in NYC and online worldwide, the New York Singing Teachers Association (NYSTA) offers its international membership events featuring leading figures in vocal performance, pedagogy, and health through the Great Coaches Series and Professional Development Program (PDP), as well as workshops, seminars, master classes and a peer-reviewed quarterly journal to inspire and educate those who work with the singing voice across all musical genres. Founded in 1906, NYSTA is the oldest singing teachers' association in the world. Join history! For more information about membership, professional development resources, and our scholarship program, please visit our website at

**[www.nysta.org](http://www.nysta.org)**

## THURSDAY, JUNE 2, 2022

### Special Session A: Measurement (6:30pm - 8:20pm)

*Concurrent Session*

#### Special Session - Measurement

**Chair: Eric J. Hunter, PhD**

**The Westin Philadelphia Hotel, Grand Ballroom, Salon I**

- 6:30p A Comparative Study of Wavelet Analysis and Short-Time Fourier Transform on the Singing Voice  
*Xiao Shi, BS, Kayla Gautereaux, MM, Ian Howell, DMA*
- 6:40p The Effect of an Outlet Tube Termination on the Acoustic SNR of the Vortex Whistle  
*Ang Li, MS, Jun Chen, PhD, Jordan Awan, PhD, David Eddins, PhD, Shaheen Awan, PhD*
- 6:50p Within-Session Stability of Vocal Characteristics During Repeated Measures and Different Production Styles  
*Eric J. Hunter, PhD, Sarah Hargus Ferguson, PhD, Shae D. Morgan, PhD*
- 7:00p Towards Quantifying Vocal Effort and Vocal Production in Response to a Controlled Vocal Demand  
*Eric J. Hunter, PhD, Mark L. Berardi, PhD, Susanna Whitling, PhD*
- 7:10p Multiparametric Acoustic Model for Prediction of Voice Disorders in Brazilian Portuguese Speakers  
*Leonardo Lopes, PhD, Samuel Ribero Abreu, MS, Priscila Silva, PhD*
- 7:20p Discussion
- 7:30p An I-Vector Based Voice Quality Classification System  
*Chuyao Feng, BS, Eva van Leer, PhD, David Anderson, PhD*
- 7:40p Efficient Quantification of Self-Perceived Voice Symptoms in an Occupational Setting Using a Visual Analog Scale  
*Adrián Castillo-Allendes, SLP, Eduardo Fuentes-López, PhD, Daniel Guzmán-Ferrada, SLP, Eric J. Hunter, PhD*
- 7:50p Study on the Vibration Closure Characteristics of Normal Human Vocal Folds through Synchronous Electroglottography and Laryngeal High-Speed Photography  
Signal Combining Artificial Intelligence Automatic Analysis  
*Xinlin Xu, MD, Xi Wang, MD*
- 8:00p Increasing the Diagnostic Value of Electroglottographic Metrics using Matched Comparisons  
*Meike Brockmann-Bauser, PhD, Naomi Iob, Huanchen Cai, Lei He, PhD, Sten Ternström, PhD*
- 8:10p Discussion
- 8:20p Adjourn

#### VIRTUAL CONTENT

Early Investigation of Reported of COVID-19 Symptoms in Singers  
*Ana Flavia Zuim, PhD, Aaron Johnson, PhD, Justin Moniz, DM, Nicholas Connolly, MM*



SCAN ME

## THURSDAY, JUNE 2, 2022

### Special Session B: Measurement (6:30pm - 8:20pm)

Concurrent Session

THURSDAY, JUNE 2, 2022  
AGENDA

#### Special Session - Measurement

Chair: Catherine Madill, PhD

The Westin Philadelphia Hotel, Grand Ballroom, Salon II

- 6:30p Voice Onset Measurement: A Systematic Review  
*Antonia Margarita Chacon, SLP, Duy Duong Nguyen, MD, Michael Döllinger, PhD, Tomás Arias, MSc, Catherine Madill, PhD*
- 6:40p Using Voice Synthesis Techniques to Virtually Explore the Sound Field within the Human Vocal Tract  
*Daniel Ryan Michael Woods, MSc, David Howard, PhD*
- 6:50p Aerodynamic, Glottographic, and Acoustic Effects of Clear Speech  
*Mahdi Tahamtan, MSc, Ronald C. Scherer, PhD*
- 7:00p Comparative Analysis of Two Methods of Perceptual Voice Assessment  
*Hagar Feinstein, SLP, Ümit Daşdöğen, MSc, Katherine Verdolini Abbott, PhD*
- 7:10p Time versus Spectral-Based Acoustic Analysis of the Vortex Whistle  
*Jordan Awan, PhD, Jun Chen, PhD, David Eddins, PhD, Ang Li, MS, Shaheen Awan, PhD*
- 7:20p Discussion
- 7:30p Physical Modeling of High-Resolution Hybrid CT+MRI Vocal Tract Images  
*David Meyer, DM, Sajan Goud Lingala, PhD, Subin Erattakulangara, BS, Wahidul Alam, BS, Rushdi Rusho, BS, Jarron Atha, BS, Gary E. Christensen, David M. Howard, PhD, Eric A. Hoffman, Ingo R. Titze, PhD*
- 7:40p Minimal CT Dosages Necessary for Blended CT+MRI Vocal Tract Imaging  
*David Meyer, DM, Sajan Goud Lingala, Jarron Atha, BS, David M. Howard, PhD, Eric A. Hoffman, PhD, Ingo R. Titze, PhD*
- 7:50p Effect of Crack/Sob Onset on Acoustic Measures of Voice Quality and Closed Quotient  
*Aaron Johnson, PhD, Tyler Crosby, MD, Mike Ruckles, MM*
- 8:00p Discriminative Power of Ambulatory Phonation and Non-Phonation Behaviors to Classify Patients with Phonotraumatic Vocal Hyperfunction and Vocally Healthy Matched Controls  
*Hamzeh Ghasemzadeh, PhD, Robert E. Hillman, PhD, Andrew J. Ortiz, MS, Jarrad Van Stan, PhD, Daryush D. Mehta, PhD*
- 8:10p Discussion
- 8:20p Adjourn

### VIRTUAL CONTENT

Self-Assessment of Vocal Symptoms and Coping Strategies in Dysphonia:

New Perspective Based on Item Response Theory

*Larissa Nadjara Alves Almeida, MD, João Agnaldo do Nascimento, MD,*

*Iandra Kaline Lima Barbosa, MD, Anna Alice Almeida, MD*



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## FRIDAY, JUNE 3, 2022

6:45a Advisory Board Meeting: Chair: Michael M. Johns III, MD  
(The Director's Room)

7:30a Registration Opens  
(Independence Hall)

### Special Session (8:00am - 12:00pm)

#### Voice and Culture

**Moderator: Nancy Pearl Solomon, PhD**

**The Westin Philadelphia Hotel, Grand Ballroom**

8:00a Our Differences Make Us Stronger! Diversity in Voice Use and Voice Care  
*Nancy Pearl Solomon, PhD*

8:10a Traits of Civilization and Voice Disorders  
*Abdul-Latif Hamdan, MD*

8:50a Expression and Perception of Emotions in the Voice Across Cultures  
Uncovering Neurobiological Mechanisms  
*Petri Laukka, PhD*

9:30a Coffee Break

10:00a Assessment of Voice Disorders in a Multicultural World  
*Mara Behlau, PhD*

10:30a Addressing Cultural Disparities in Voice Research and Care: Framing  
Future Directions  
*Mariah Morton, MS*

11:00a- DISCUSSION  
12:00p Moderator: *Nancy P. Solomon, PhD*  
Panel: *Hamdan, Laukka, Behlau, Morton*

12:00p Lunch (on your own)

12:15pm - 1:30pm Voice Foundation Board of Directors Meeting  
Chair: Robert T. Sataloff, MD  
Board Room

12:15pm Young Laryngologists Meeting  
Chair: Thomas Carroll, MD  
Director's Room

### The Workshop Sessions 1:30pm - 4:45pm

#### WORKSHOP REMINDER

The Workshops are at the **Academy of Vocal Arts, 1920 Spruce St.**, a half mile walk from the Westin Hotel. **Maps & Directions** to Academy of Vocal Arts (AVA) are available online, and at the Registration Desk

Directions and Map:



SCAN ME



FRIDAY, JUNE 3, 2022

**Workshops Session I (1:30pm-2:25pm)**

**Musical Theater/Pop-Rock-RnB/CCM**

Can You Sing With All the Colors of Your Voice? Developing Vocal Strength and Flexibility  
Using the Principles of Somatic Voicework™ The LoVetri Method

*Maria Damore, MS, Bharati Soman, MM*

**Rehabilitation of the Injured Speaking Voice**

Flow Phonation Workshop (Live)

*Jackie Gartner-Schmidt, PhD*

**Transgender Voice**

Toolbox for the Trans Vocal Performer: From Speaking to Singing and Everything in  
Between

*Felicia Francois, SLP Caitlin Croegaert Koch, MS*

**Singing Voice**

Multiple Strategies for Each Stage of the Breath Management Cycle

*Carla LeFevre, DMA*

The Baritenor Conundrum

*Thaddaeus Bourne, DMA*

**Voice Studio/Science/Technology**

VoceVista as a Pedagogical Tool: Exploring the [a] Scale of the Classical Treble Singer

*Kelley Hijleh, GPD*

So You Want to Start a Collaborative Voice Center: Models, Methods, and Moxxy

*Desi Gutierrez, Edie Hapner, PhD*

**Workshop Session II (2:30pm-3:25pm)**

**Acting Voice**

Voice. Diction. Resonators.

*Zane Daudzina, Mag Art*

**Musical Theater/Pop-Rock-RnB/CCM**

Shifting Gears from Classical to Commercial Styles

*Edrie Means Weekly, MM*

**Singing Voice**

Consonants are Kings, Vowels are Queens, and the Rest is Respiration

*Linda Carroll, PhD*

So you know how to sing? ...Now let's scream!

*Nicolás Hormazábal*

**Transgender Voice**

Non-Binary Voice: Repertoire and Technique for an AFAB Classical Singer

*Liz Jackson Hearn, MM*

**Body Awareness and Voice**

The Use of The Franklin Method® for Optimizing Posture, Breathing and  
Phonation

*Kate Emerich, MS*

*Care of the Professional Voice 2022*

FRIDAY, JUNE 3, 2022  
AGENDA

## FRIDAY, JUNE 3, 2022

### Workshop Session III(3:30pm-4:25pm)

#### **Singing Voice**

Too Much, Too Little, Just Right: The Balancing Act Model of Singing  
*Robert Edwin, BA*

Not Lost In Translation: Using Focus Of Attention Directives In Voice Training  
*Melissa Treinkman, DMA*

It's Not all Fun and Games.....or Is It?  
*Sheri Cook-Cunningham, PhD, Melissa L. Grady, PhD*

#### **Musical Theater/Pop/Rock/CCM**

The Use of Rough Vocal Effects in Singing – How to Train Noises such as Distortions, Grunts, Growls, Screams, and Many Others in a Healthy Manner  
*Mathia Aaen, PhD*

#### **Body Awareness and Voice**

Adapting Yogic Breathwork for Voice Therapy and Singing Voice Rehabilitation  
*Kenneth Tom, PhD*

#### **Just Breathe: Breathing Techniques for Performing and Rehabilitation**

*Louise Pinkerton, MM*

#### **Voice Science/Technology**

Organizing Virtual Interprofessional Vocal Health Screenings for Singing Students  
*M. Eugenia Castro, MS*

### Virtual Workshops

#### **Experience Bossa Nova through Listening, Singing and Body Percussion**

*Elizabeth Amin, SLP*

#### **My Floor Fell Out! Now What? Pelvic Floor Health for the Singer**

*Rebekah J. Ankrom-Baker, MM*

#### **Teleeducation Program for Teachers**

*R. Eugenia Chavez Calderon, MD*

#### **Can You Sing With All the Colors of Your Voice? Developing Vocal Strength and Flexibility Using the Principles of Somatic Voicework™ The LoVetri Method**

*Maria Damore, MS, Bharati Soman, MM*

#### **Considering Client Motivation through the Lens of Self-Determination Theory**

*M. Eugenia Castro SLP, Hillary Enclade SLP, Benjamin Hall, LMFT*

#### **Professional Vocal Health: A Guide for Routine Care**

*Maria Franca, PhD*

#### **The Power of Strategic Feedback**

*Lorraine Manifold, MA*



SCAN ME

# CONGRATULATIONS

The Editorial Board of the Journal of Voice  
is proud to announce the 2021 Best Paper Awards

Access to these articles is gratis for the next six months at [jvoice.org](http://jvoice.org)

## Basic Science

[Using Pitch Height and Pitch Strength to Characterize Type 1, 2, and 3 Voice Signals](#)

Supraja Anand, Lisa M. Kopf, Rahul Shrivastav, David A. Eddins

## Clinical Medicine

[Safer Singing During the SARS-CoV-2 Pandemic: What We Know and What We Don't](#)

Matthew R. Naunheim, Jonathan Bock, Philip A. Doucette, Matthew Hoch, Ian Howell, Michael M. Johns, Aaron M. Johnson, Priya Krishna, David Meyer, Claudio F. Milstein, John Nix, Michael J. Pitman, Trineice Robinson-Martin, Adam D. Rubin, Robert T. Sataloff, Herbert Steven Sims, Ingo R. Titze, Thomas L. Carroll

## SLP/Vocal Ped

[Developing Clinically Relevant Scales of Breathiness and Rough Voice Quality](#)

David A. Eddins, Supraja Anand, Arianna Lang, Rahul Shrivastav

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# *Voices of Summer Gala*

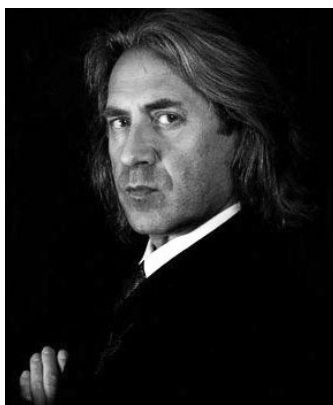
*Friday, June 3, 2022*

5:30p Cocktails,  
6:30p Dinner, Awards, Entertainment, Dancing

## *Honoring*



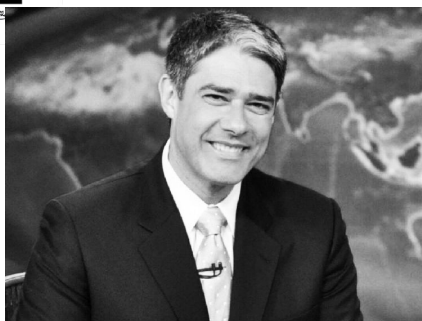
*Jon Bon Jovi, Pop-Rock  
Idol*



*Vladimir Chernov,  
Metropolitan Opera Star*



Tickets available online or  
at the registration desk.



*William Bonner, Brazilian  
Newsman, Globo TV*

## SATURDAY, JUNE 4, 2022

SATURDAY, JUNE 4, 2022

AGENDA

6:45a New Investigator Research Forum

Incoming Chair: Rita R. Patel, PhD

(Thanks to Molly Erickson, PhD for her work leading this committee)

(The Director's Room)

7:30a Registration Opens

(Independence Hall)

### AWARD INFORMATION ONLINE

#### THE VOICE FOUNDATION CAREER AWARD

The Johan Sundberg-Ingo Titze Award

#### ANNUAL SYMPOSIUM RESEARCH AWARDS

**Sataloff Award for New Investigators** (sponsored by Elsevier)



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**Hamdan Award for International Presenters**

(endowed by Abdul-latif Hamdan, MD)

**NSDA Research Award** (National Spasmodic Dysphonia Association and TVF, for related research)

**Van L. Lawrence Fellowship** (co-sponsored by NATS and for NATS members)

**Journal of Voice Best Paper Awards**

**Best Poster Awards:** Judged by a wide range of senior researchers.

**Hamdan Best Student Presentation** (Sponsored by Abdul-latif Hamdan, MD)

**Gisele Oliveira Award** (Sponsored by Adam Rubin, MD)

### Annual Symposium Educational Opportunity Award

**New Investigator Research Forum**

#### ANNUAL SYMPOSIUM LECTURES

The Voice Foundation is proud to offer the following awards of excellence and to honor those who have contributed significantly to the field of voice.

**Quintana Award:** recognizing those who design or utilize technology and apply engineering principles that provide further understanding of the voice.

**G. Paul Moore Lecture:** Named in honor of Dr. Moore, this lectureship was created to provide an opportunity for people of stature in the field to share their philosophical and historical perspectives on voice and to provide an overview of their particular areas of interest

**Keynote Speakers**

**Master Class Teachers**

#### GALA AWARDS

**V.E.R.A. Award:** Voice Education Research Awareness

Raymond and Beverly Sackler Award for vocal excellence.

**Wilbur James Gould Award:** presented upon Board approval to honor outstanding supporters of The Voice Foundation activities.

**Tony Randall Memorial Award:** in honor of our beloved President Emeritus, Tony Randall.

## SATURDAY, JUNE 4, 2022

**Medical Session A (8:00am—9:50am) Concurrent****Chair: Matthias Echternach, MD****The Westin Philadelphia Hotel Grand Ballroom, Salon I**

- 8:00a Singing Voice Symptomatology Following Presumed SARS-CoV-2 Infection  
*Sophia E. Dove, BM, Christine A. Petersen, PhD, David Meyer, DM*
- 8:10a Association between Voice Functioning with Sleep and Stress among Health Personnel in a Colombian Hospital during the COVID-19 Pandemic  
*Lady Catherine Cantor Cultiva, PhD, Andrés Carrillo-Gonzalez, MS*
- 8:20a Economic impact of the COVID-19 Pandemic on Voice Functioning, Stress, and Sleep in Colombian College Professors  
*Lady Catherine Cantor Cultiva, PhD, Leidy Lorena Forero-Suárez, BA, Bibiana Omaira Rute-Sanabria, BA, Ángela Patricia Atará-Piraquive, MS*
- 8:30a Respirable Aerosol Emission during Voice Assessment and Treatment  
*Brian Saccente-Kennedy, MSc, Ruth Epstein, PhD, Justice Archer, PhD, Henry Symons, PD, Natalie Anne Watson, MA, Christopher M. Orton, OBBS, Joshua Harrison, MS*
- 8:40a Assessing the Effectiveness of Mitigation Strategies to Reduce Airborne Respirable Aerosols during Voice Assessment and Treatment  
*Brian Saccente-Kennedy, MSc, Ruth Epstein, PhD, Alicja Szczepanska, MSc, Joshua Harrison, MS, Justice Archer, PhD, Natalie Anne Watson, MA, Declan Costello, MD, Bryan R. Bzdek, PhD, Jonathan, Reid, PhD,*
- 8:50a Discussion
- 9:00a Acoustic Analysis of Professional Singing Masks  
*Bogac Tur, MSc, Matthias Echternach, PhD, Stefan Turowski, PhD, Meinard Müller, PhD, Marie Köberlein, PhD, Michael Döllinger, PhD, Stefan Kniesburges, PhD*
- 9:10a Impulse Dispersion of Professional Singing Masks  
*Matthias Echternach, MD, Laila Hermann, Sophia Gantner, MD, Bogac Tur, MSc, Gregor Peters, MSc, Caroline Westphalen, Tobias Beenthaus, MD, Marie Köberlein, PhD, Michael Döllinger, PhD, Stefan Kniesburges, PhD*
- 9:20a Vocal Dosage for Partners of People with Hearing Impairment  
*Julia Kathryn Ellerston, CCC-SLP, Elizabeth D. Young, MS, Eric J. Hunter, PhD, Sarah Hargus Ferguson, PhD*
- 9:30a The Validity and Reliability of the Reflux Finding Score: The Effect of Physician Training  
*Parastou Azadeh Ranjbar, BS, Bailey Balouch, BS, Christopher Yam, MS, Ghiath Alnouri, MD, Ahmad Al Omari, MD, Harleen Sethi, DO, Robert T. Sataloff, MD*
- 9:40a Discussion

**VIRTUAL CONTENT**

The Impact of Masking Habits on Voice in a Sub-Population of Healthcare Workers  
*Christopher Jabbour, MD, Abdul-Latif Hamdan, MD, Anthony Ghanem, MD, Paola Ghanem, MD*



SCAN ME



**Medical Session B(8:00am—9:50am) Concurrent**

**Chair: Joel Portnoy, MD**

**The Westin Philadelphia Hotel Grand Ballroom, Salon II**

- 8:00a The Microbiome of the Larynx in the Healthy and Diseased State  
*Samantha Frank, MD, Ruwaa Samarrai, MD, George Weinstock, PhD, Daniel Roberts, MD, Denis Lafreniere, MD*
- 8:10a Sustained Release of IL-10 from Laponite-Loaded Microgels Modulate Macrophage Activation and Attenuate Vocal Fold Fibroblast Collagen Synthesis  
*Sepideh Mohammadi, MSc, Hossein Tavanbakhsh, PhD, Sareh Taheri, MSc, Guangyu Bao, MSc, Luc Mongeau, PhD*
- 8:20a Impact of Continuous Positive Pressure Therapy – CPAP on Vocal Quality  
*Bruna Rainho Rocha, SLP, Vanessa Veis Ribeiro, PhD, Dalva Payares, MD, Mara Behlau, PhD*
- 8:30a Healthy Extreme Vocals – a Longitudinal Study of Vocal Health in 20 Singers Performing and Teaching Rough Vocal Effects  
*Mathias Aaen, PhD, Cathrine Sadolin, Anna White, Reza Nouredi, MD, Julian McGlashan, MD*
- 8:40a Galacturonic Acid-Pectin, a Lubricant of the Vocal Folds that Improves Vocal Function  
*María Borragán Salcines, PhD, Marco Fantini, MD, Andrea Ricci-Maccarini, MD, Bruno Gómez Mediavilla, SLP, Marian Agudo Leguina, SLP, Alfonso Borragán Torre, PhD*
- 8:50a Discussion
- 9:00a Relationship Between First Voice Complaint and Voice Diagnosis in Patients with Chronic Cough  
*Rim Saab, MS, Thomas Murry, PhD, Jessica Kim, BS, Priya Krishna, MD, Brianna Crawley, MD*
- 9:10a The Less You Cough the Less You Cough  
*Natasha Curham, SLP, Debra Jean Phyland, PhD*
- 9:20a Reliability of Laryngeal Videostroboscopy with Visual-Perceptive Parameters in Cipto Mangunkusmo General Hospital  
*Yonian Gentilis, MD, Elvie Zulka, MD*
- 9:30a-9:50a Discussion

**VIRTUAL CONTENT**

Larynx Movement during Singing in Professional Singers and Non Singers:  
A 3D Analysis  
*Claudio Storck, MD, Christian Ebnoether, MD, Jan Thommen, MD*

The Utility of Ultrasound Imaging in the Examination of Pediatric Larynges  
*Ching Man Rosalina, BS, Elaine Kwong, PhD*

Clinical and Pathological Features of Vocal Fold Leukoplakia and Related Factors of Recurrence and Canceration  
*Haizhou Wong, MD, Liyu Cheng, MBBS, Wen Xu, MD*

## SATURDAY, JUNE 4, 2022

9:50a Coffee Break

**Panel (10:10AM—11:00AM)**

The Westin Philadelphia Hotel, Grand Ballroom

**Gender Affirming Voice Care: Choices and Challenges**

Moderator: Aaron Zigler, PhD

Panelists: Simon Best, MD, Kristen Lee Bond, CCC-SLP, Emily Tomaine, Katherine C. Yung, MD

**Award Announcements (11:00AM—11:10AM)**

Chair: Robert T. Sataloff, M.D.

The Westin Philadelphia, Grand Ballroom

31<sup>st</sup> Van Lawrence Fellowship Award14<sup>th</sup> Annual Sataloff Young Investigators Award22<sup>nd</sup> Annual David W. Brewer Award for Best Poster16<sup>th</sup> Annual Journal of Voice Best Paper Awards11<sup>th</sup> Annual Hamdan International Presentation Award8<sup>th</sup> Annual Best Student Presentation Award4<sup>rd</sup> Spasmodic Dysphonia Research Award4<sup>th</sup> Sundberg-Titze Award

SCAN ME

**For more information  
about Symposium  
Awards and past  
winners**

**G. Paul Moore Lecture (11:10AM—12:00PM)**

Chair: Robert T. Sataloff, M.D.

The Westin Philadelphia, Grand Ballroom

**My Journey in Aging Voice****Michael M. Johns III, MD**

Dr. Johns is a graduate of Johns Hopkins School of Medicine. He completed his residency in Otolaryngology at the University of Michigan and trained as a research fellow through their National Institute of Health T32 program. He then pursued a fellowship in laryngology and care of the professional voice at the Vanderbilt Voice Center at Vanderbilt University. Dr. Johns was awarded high honors during his academic career, including membership in Phi Beta Kappa and Alpha Omega Alpha medical honor society. He is the director of the USC Voice Center at the University of Southern California, pursuing

research, teaching and clinical care, with a specific interest in laryngeal dystonia, geriatric laryngology and the aging voice.

12:00p Lunch Break (on your own)

Meeting of the Voice Laboratory Representatives  
(Georgian Room)

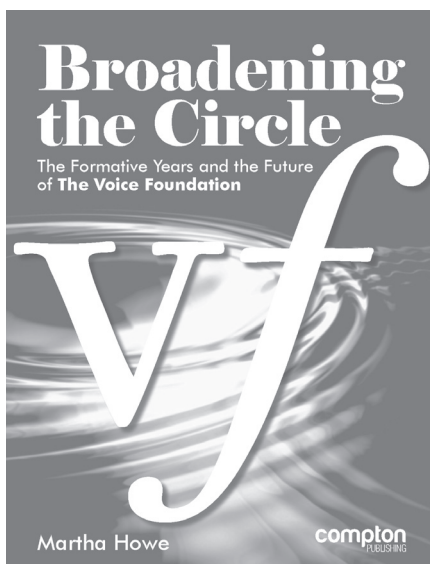
Meeting of The Voice Foundation Chapters  
(The Director's Room)

**Broadening the Circle: The Formative Years and the Future of  
The Voice Foundation by Martha Howe,**

is more than a celebration and history of The Voice Foundation: indeed, it might be argued that it is, truly, the 'state of the art' (and the science!).

Here is a fascinating and illuminating chronicle of the development of the science and art of voice, told by the scientists, teachers, speech-language pathologists, otolaryngologists, and voice performers who have influenced – and continue to influence – this still-new and developing science built around the complexities of the human voice.

Available at  
The Voice Foundation  
exhibitor table or online at



SCAN ME

## SATURDAY, JUNE 4, 2022

**Speech-Language Pathology A (1:00pm—3:00pm)***Salon I - Concurrent Session***Session Chair: Deborah Feijo, PhD****The Westin Philadelphia Hotel, Grand Ballroom, Salon I**

- 1:00p Voice Therapy Placebo. Does It Exist?  
*Kristiane Van Lierde, PhD, Saar Nia, MD, Evelien d'Haeseleer, PhD, Iris Meerschman, PhD, Clara Leyns, MSc, Imke Kissel, MSc, Anke Adriaansen, MSc, Tine Papeleu, SLP, Youri Maryn, PD*
- 1:10p Adherence to Conversation Training Therapy with and without the Fake Phone Call  
*Eva van Leer, PhD, Amanda Gillespie, PhD*
- 1:20p Does a Systematic Vocal Exercise Program Enhance the Physiologic Range of Voice Production in Classical Singing Graduate-Level Students?  
*Marco Guzman, PhD, Vrushali Angadi, PhD, Daniel Croake, PhD, Christopher Catalan, SLP, Constanza Romero, SLP, Gabriela Acuña, Richard Andreatta, PhD, Joseph Stemple, PhD*
- 1:30p Voice Acoustic Parameter Dependencies on Recording Instruments from Repeated Clinical-Like Recordings: Accelerometer vs. Microphone  
*Lady Catherine Cantor-Cutiva, PhD, Adrián Castillo-Allendes, MS, Eric J. Hunter, PhD*
- 1:40p The Relationship Between Self-Evaluation Protocols and the Vocal Use of Active Working Broadcast Television Sports Narrators  
*Deborah Feijó, CCC-SLP, Mara Behlau, PhD, Patricia Lopes, CCC-SLP*
- 1:50p Discussion
- 2:00p Introducing EAVE: A Self-Report Tool for Tracking the Perceived Physical Aspects of Vocal Function  
*Debbie Jean Phyland, PhD, Nicole Free, SLP, Mara Behlau, PhD*
- 2:10p Effects of Interferential Current Stimulation to the Neck on Functional Dysphonia: Clinical Case Study  
*Mami Kaneko, PhD, Yoichiro Sugiyama, MD, Shigeru Hirano, MD*
- 2:20p The Immediate Impact of Targeted Exercises on Voice Characteristics in Female Speakers with Phonotraumatic Vocal Fold Lesions  
*Nicole Free, CCC-SLP, Joseph Stemple, PhD, Debra Jean Phyland, PhD, Julian Smith, MD*
- 2:30p Exploring the Lombard Effect in Participants with Non-Phonotraumatic Vocal Hyperfunction using a Simplified Version of the DIVA Model  
*Juan Pablo Cortés, PhD, Christian Castro, SLP, Pavel Prado, PhD, Lucía Zepeda, SLP, Victor Espinoza, PhD, Matías Zañartu, PhD*
- 2:40p A Qualitative Study of Expert Opinion on Implementation of Phonation Resistance Training Exercises  
*Aaron Ziegler, PhD, Edie R. Hapner, PhD*
- 2:50p Discussion
- 3:00p Break

**SATURDAY, JUNE 4, 2022**

**Speech-Language Pathology B (1:00pm—3:00pm)**  
*Salon II- Concurrent Session*

**Session Chair: Chaya Nanjundeswaran, PhD**

**The Westin Philadelphia Hotel, Grand Ballroom, Salon II**

- 1:00p Evaluating the Therapeutic Use of a Vibratory Positive Expiratory Pressure Device (Acapella Choice) in the Treatment of Pathological Voice  
*Brian Saccente-Kennedy, MSc, Pedro Amarante Andrade, PhD, Ruth Epstein, PhD*
- 1:10p Breath Support Therapy in Patients with Voice Disorders: Outcomes Based on Objective Voice Measures  
*Kaitlyn C. Kishbaugh, CCC-SLP, Kenneth W. Altman, MD, Priscilla FA Pichardo, DO, Christina E. Kemper, CCC-SLP*
- 1:20p Could Magnetic Resonance Guided Ultrasound Thalamotomy (MRgFUS) Be the New Frontier In The Treatment of Vocal Tremor?  
*Claudio F. Milstein, PhD, Paul Bryson, MD, Michelle Adessa, CCC-SLP, Diana Lopez, MS*
- 1:30p Speech Pathology and Vocal Cord Dysfunction - Clinical Perspectives on Easing the Flow  
*Kate Lethbridge, CCC-SLP, Aashna Vazirani, SLP, Debra Jean Pyland, PhD*
- 1:40p Effectiveness of Glottal Source Features in the Discrimination of Speech of Healthy Talkers from Speech of Parkinsonian Talkers with and without Perceptual Dysarthria  
*Sudarsana Reddy Kadiri, PhD, Paavo Alku, PhD*
- 1:50p Discussion
- 2:00p Effects of Voice Therapy in Children with Vocal Fold Nodules: A Pilot Study  
*Anke Adriaansen, MSc, Kristiane Van Lierde, PhD, Iris Meerschman, PhD, Sofie Claeys, Lynsey De Smet, Evelien D'haeseleer, PhD*
- 2:10p Clinical Choices for Children: SLP Management of Benjamin Defect  
*Paula L. Barson, CCC-SLP, Linda Carroll, PhD, Abigail L. Rosenberg, CCC-SLP, Kimberly L. Duff, CCC-SLP, Karen B. Zur, MD*
- 2:20p Behavioral Data in Exploration of the Identity-Centric Framework for Voice Habilitation and Rehabilitation  
*Marianna Rubino, CCC-SLP, Maria Dietrich, PhD, Katherine Verdolini Abbott, PhD*
- 2:30p Listeners' Attitudes toward Young Men Using Glottal Fry  
*Chaya Nanjundeswaran, PhD, Marci Dupre, BA, Savannah Forren, BS, Nora Marshall, BA, Bailey Schneider, BS, Kylee Winkler, BS*
- 2:40p Preliminary Validation of the Trans Woman Voice Questionnaire (TWVQ) in Thai  
*Kiattipoom Nantanukul, MSc, Laruyn Zipse, PhD, Charles Haynes, EdD, Michelle Adessa CCC-SLP, Sujinat Jitwiriyonant, PhD*
- 2:50p Discussion
- 3:00p Break

**SATURDAY, JUNE 4, 2022**  
**AGENDA**

## SATURDAY, JUNE 4, 2022

**Speech-Language Path A continued (3:30pm—5:10pm)****Session Chair: Lady Catherine Cantor Cultiva, PhD****The Westin Philadelphia Hotel, Grand Ballroom, Salon I**

- 3:30p A Physiologic Voice Therapy Program Based on Different Semi-Occluded Vocal Tract Exercises in Subjects with Functional Dysphonia: A Randomized Controlled Trial  
*Teresa Bertucci, SLP, Constanza Pacheco, SLP, Fernando Leiva, SLP, Felipe Quintana, SLP, Romina Ansaldi*
- 3:40p The Effect of Bilingualism on the Voice of Spanish-English Bilingual Speakers  
*Lacy Catherine Cantor Cutiva, PhD, Pasquale Bottalico, PhD, JosseMia Webster, SLP, Keiko Ishikawa, PhD*
- 3:50p Effects of Voice Therapy in Children with Vocal Fold Nodules: A Systematic Review  
*Anke Adriaansen, MSc, Iris Meerschman, PhD, Kristiane Van Lierde, PhD, Evelien D'haeseleer, PhD*
- 4:00p Discussion
- 4:10p Characterizing Vocal and Communicative Dysphoria in the General Population  
*Leah B. Helou, PhD, AC Goldberg, PhD, Brett Welch, CCC-SLP*
- 4:20p Prevalence of Self-Identified Laryngoresponders in a Non-Treatment-Seeking Sample of the General Population  
*Leah B. Helou, PhD, Sarah Hoch, BA, Brett Welch, CCC-SLP, Jacqueline Gartner-Schmidt, PhD*
- 4:30p Laryngoscopic Biofeedback for the Treatment of ILO: A Pilot Study  
*Estelle Bogdanski, CCC-SLP, Antoine Giovanni, PhD, Alexia Mattei, MD, Ralph Haddad, MD, Justin Michel, PhD*
- 4:40p Yoga Protocol Development for Muscle Tension Dysphonia: A Delphi Study  
*Anuja Chhabra, PhD, Ryan Bradley, MPH, Heather Zwickey, PhD, Maria Dietrich, PhD, Miriam R van Mersbergen, PhD, Julie Barkmeier-Kraemer, PhD*
- 4:50p Discussion
- 5:00p Dinner



SCAN ME

**VIRTUAL CONTENT****Influence of School and Classroom Conditions on Teacher's Vocal Health: A Systematic Review***Julio Fernando Ochoa Rodriguez, MSc, Harold Zamir Taborda Osorio, MSc, Jennyffer Andrea Ramirez Vaca, Milena Salcedo Leyva***Economic Costs Associated with Voice Disorders among Occupational Voice Users: A Systematic Review***Harold Zamiir Taborda Osorio, MSc, María Jesús Terradillos García, PhD, Martha Isobel Riaño Casallas, PhD***Patient and Clinician Perspectives on Chronic Functional Voice Disorders: A Qualitative Study***Judith Wodzak, CCC-SLP***Continued on page 28**



**Speech-Language Path B continued (3:30pm—5:10pm)**

**Session Chair: Julia Kathryn Ellerston, MA, CCC-SLP**  
**The Westin Philadelphia Hotel, Grand Ballroom, Salon II**

- 3:30p Vicarious Virilization: A Case Pairing of Testosterone Transfer from Male Partners Creating Female Dysphonia  
*Julia Kathryn Ellerston, CCC-SLP, Elizabeth Hary, CCC-SLP*
- 3:40p Acoustic Outcomes in Patients seeking Voice Feminization: Investigation into Articulatory and Spectral Measures  
*Renee L. Gustin, CCC-SLP, Tara E. Dickinson, Savannah N. Shanley, Rebecca J Howell, MD, Amy L. Hobek, PhD, Tulsı H. Patel, MS, Victoria S. McKenna, PhD*
- 3:50p Short-term Acoustic Effects of Speech Therapy in Transgender Women  
*Clara Leyns, MSc, Julie Daelman, Anke Adriaansen, MSc, Dominique Morsomme, PhD, Peter Tomassen, MD, Guy T'Sjoen, MD, Evelien D'haeseleer, PhD*
- 4:00p Intonation Parameters in Gender Diverse People  
*Tine Popeleu, MSc, Clara Leyns, MSc, Peter Tomassen, MD, Paul Corthals, PhD, Guy T'Sjoen, MD, Evelien D'haeseleer, PhD*
- 4:10p Discussion
- 4:20p Acoustic Voice Characteristics of Healthy Aging in Continuous Speech  
*Sandra Rojas, PhD, Elaina Kefalianos, PhD, Miya St John, SLP, Adam Vogel, PhD*
- 4:30p A Cross-Sectional Study of Perceptual and Acoustic Voice Characteristics in Healthy Aging  
*Sandra Rojas, PhD, Benjamin G. Schultz, PhD, Miya St John, SLP, Elaina Kefalianos, PhD, Adam Vogel, PhD*
- 4:40p Effects of Sidetone Amplification on Vocal Function During Telecommunication  
*Nicole E. Tomassi, BS, M. Eugenia Castro, CCC-SLP, Lauren Timmons Sund, CCC-SLP, Manuel E. Díaz-Cádiz, MS, Daniel P. Buckley, CCC-SLP, Cara E. Stepp, PhD*
- 4:50p Discussion
- 5:00p Dinner



SCAN ME

**VIRTUAL CONTENT**

Trans Women's Perception and Experiences on "Voice Feminization" in Santiago, Chile  
*Marcelo Saldías, PhD, Ignacia Fuenzalida, Jordan Hicks, Javiera Rey, Patricia Junge, PhD*

Provider and Patient Satisfaction with Telemedicine Voice Therapy During the COVID-19 Pandemic

*Mary E. Kim, BA, Lauren Timmons Sund, CCC-SLP, Mariahh Morton, CCC-SLP, James Kim, MD, Janet S. Choi, MD, M. Eugenia Castro, CCC-SLP*

Comparison of Acoustic Parameters, "VOT" and "CPP", between Post-lingual Cochlear Implanted Users and Normal Peers

*Fatemeh Aghaei, MSc, Ali Dehqan, PhD, Peyman Zamani, PhD, Hassan Khoramshahi, PhD*

**Continued on page 28**

## SATURDAY, JUNE 4, 2022

## VIRTUAL CONTENT Continued

Frameworks, Terminology and Definitions used for the Classification of Voice Disorders, a Scoping Review

*Christopher Payten, BSc, Greg Chiapello, MSc, Kelly Weir, PhD,  
Catherine Madill, PhD*

Investigation of the Effects of Cricothyroid Visor Maneuver (CVM) Therapy on the Voice Characteristics of Patients with Muscular Tension Dysphonia

*Nasrin Shahouzaei, MSc, Ali Dehqan, PhD, Hamide Ghaemi, PhD*

Acoustic Variables Associated with Perception of Strain

*Molly Erickson, PhD, Taylor Stone, BM*

A Lung Volume Based Training Paradigm for Treatment of Muscle Tension Dysphonia

*Soren Y. Lowell, PhD, Dana S. Levitt, CCC-SLP, Richard T. Kelley, MD,  
Raymond H. Colton, PhD, Anya C. Freedman-Doan, MM, Mariela B. Mercado, BA*

**5:10p Dinner on your own**

### Voice Pedagogy A (6:00pm-7:10pm) Concurrent Session

Session Chair: Kathy Kessler Price, PhD

The Westin Philadelphia Hotel, Grand Ballroom, Salon I

- 610p Effects of a Choral Warm-up With and Without Singer Gestures on Mature Singers  
*Melissa L. Grady, PhD, Sheri Cook-Cunningham, PhD*
- 6:20p Choral Singing and Hearing in Masks: Acoustical and Perceptual Measurements of Choral Spacing Distance and Mask Type in Light of Singer/Listener Preferences  
*Kathy Kessler Price, PhD, Felicia Betts, BM, Minh-Vy Duong, BM*
- 6:30p Voice Quality of Choir Singers and the Effect of a Performance on the Voice  
*Kristiane Van Lierde, PhD, Evelien d'Haeseleer, PhD, Imke Kissel, MSc, Clara Leyns, MSc, Tine Papeleu, MSc, Julie Daelman, MSc, Iris Meerschman, PhD*
- 6:40p Vocal Tracts in Virtual Reality – A Preliminary Report  
*Mohammad F. Obeid, PhD, David Meyer, DM, David M. Howard, PhD, Dan Wilson*
- 6:50p Singing in Different Performance Spaces: Room Acoustic Effects on Vibrato and Pitch Inaccuracy  
*Joshua Glasner, PhD, Pasquale Bottalico, PhD, Natalia Łastowiecka, Sílvia Murgia, MA, Yvonne Gonzales Redman, BM*

7:00p- 7:10p Discussion

### Voice Pedagogy B (6:00pm-7:10pm) Concurrent Session

Chair: Jeanne Goffi-Fynn, EdD

The Westin Philadelphia Hotel, Grand Ballroom, Salon II

- 6:10 PM Vocal Instruction in the Covid-19 Pandemic: A Survey of Voice Teachers  
*Jeanne Goffi-Fynn, EdD, Christianne Roll, EdD*
- 6:20 PM Effects of Singing Lessons on Mental and Physical Health During Social Distancing  
*Maira dos Santos Jaber, MM*
- 6:30 PM The Effect of Formant-Harmonic Crossovers on Vowel Perception  
*May Pik Yu Chan, BA, Jianjing Kuang, PhD*

## SATURDAY, JUNE 4, 2022

6:40 PM The Relationship Between Speech-Language Pathologists (SLPs) and Young Singers:  
A Survey

*Juliana C. Rivelli, BS, Sophia E. Dove, BM, Katrina E. Miller, EdD,  
David Meyer, DM*

6:50 PM Polyphonic 8-Channel 8-Stop Vocal Tract Organ  
*David Howard, PhD*

7:00p- 7:10p Discussion

**Master Class 7:30pm-8:45pm)**  
Reception Following - All are welcome

### Vladimir Chernov, Baritone

Beginning in March 2005 Chernov became Regents' Lecturer in the Division of Voice and Opera of the Music Department of the University of California, Los Angeles (UCLA) and in 2006 he became a Professor of Vocal Studies in the Music Department.

His brilliant career began in the United States when he performed the role of Foscari in *I Due Foscari* at Carnegie Hall in 1991, and soon made his debut at the Metropolitan Opera as Miller in *Luisa Miller*. He then became a featured artist at the Metropolitan Opera, and performed in multiple productions of *Don Carlo*, *Il Trovatore*, *Stiffelio*, *Simon Boccanegra*, *La Traviata*, *La Bohème*, *Il Barbiere di Siviglia*, and various gala productions. Chernov's success at the Metropolitan Opera was followed by further successes at San Francisco Opera (*Ezio* in *Attila*), Vienna Staatsoper (*Yeletsky* in *Pique Dame* and *Ford* in *Falstaff*), Lyric Opera of Chicago (*Renato* in *Un Ballo in Maschera*), Paris (title role in *Simon Boccanegra*), Teatro alla Scala (*Stankar* in *Stiffelio*).

Later performances were given at La Scala in Milan, the Vienna State Opera, the Paris Opéra, the Rome Opera, the Verona Arena, and others, mostly in the Italian repertory. In addition to his great success in Italian operas, he often returned to his native repertory, appearing in *Eugene Onegin*, *The Queen of Spades*, *War and Peace*, and *Mazeppa*.



## SUNDAY, JUNE 5, 2022

7:00a NATS Voice Science Advisory Committee  
(The Director's Room)

7:30a Registration Opens  
(Independence Hall)

**SUNDAY, JUNE 5, 2022**

AGENDA

## SUNDAY, JUNE 5, 2022

### Medical Session C (8:00am—10:30am) *Concurrent Session*

**Chair: Lucinda Halstead, MD**

**The Westin Philadelphia Hotel, Grand Ballroom, Salon I**

- 8:00a Longitudinal Case Study of the Role of Astaxanthin in Treatment of Glottal Dysplasia in a Vocal Professional: Potential Adjuvant or Solo Therapy?  
*Courtney Tipton, MD, Lucinda Halstead, MD*
- 8:10a Gender Differences in Vocal Fold Mass Treatment  
*Ghiath Alnouri, MD, Robert T. Sataloff, MD, Heather Yeakel, BS, Bailey Balouch, BS*
- 8:20a The Influence of Autonomic Arousal on Pharyngeal Air Pressure and Upper Esophageal Sphincter Pressure during Phonation  
*Jesse D. Hofmeister, PhD, Christopher L. Ulmschneider, DO, Michelle R. Ciucci, PhD, Timothy M. McCulloch, MD*
- 8:30a Singing Voice as a Primary Concern in a General Laryngology Tertiary Care Practice  
*Lauren Lu, BS, Rebecca Pittelko, MS, Lindsay Rigelman, Dale Ekbohm, MD, Semirra Bayan, MD, Diana Orbelo, PhD*
- 8:40a Impact of Baseline Voice Evaluations for Undergraduate Singing Students  
*Andrew Keltz, CCC-SLP, Juliana Codino, PhD, Adam Rubin, MD*
- 8:50a Hormone Therapy Following Menopause: Effects on Voice  
*Alyssa N. Calder, BS, Parastou Azadeh Ranjbar, BS, Ghiath Alnouri, MD, Robert T. Sataloff, MD*
- 9:00a Discussion
- 9:10a The Prevalence of Laryngeal Myasthenia Gravis in Professional Voice Users  
*Ghiath Alnouri, MD, Robert T. Sataloff, MD, Valerie Trollinger, MM*
- 9:20a The Use of RSI and pH Probe as Tools to Engage Patients in Dietary and Lifestyle Changes  
*Josef Schlömlcher-Thier, MD*
- 9:30a Anatomic and Manometric Abnormalities of the Upper and Lower Esophageal Sphincters in Patients with Reflux Disease: A Retrospective Study  
*Bailey Balouch, BS, Ghiath Alnouri, MD, Robert T. Sataloff, MD*
- 9:40a Discussion
- 10:00a Simultaneous Botox and Augmentation Injection Laryngoplasty In Patients with Adductor Spasmodic Dysphonia (ASD) and Tremor  
*Peak Woo, MD, Rachel Kominsky, MD*
- 10:10a Low Frequency Surface Neuromuscular Electrical Stimulation for Hypofunctional Voice Disorders: A Case Study  
*Pedro Andrade, PhD, Marek Fric, PhD, Jana Krtickoba, MD, Jakub Drsata, MD, Viktor Chrobok, MD*
- 10:20a Discussion

**SUNDAY, JUNE 5, 2022**

**Medical Session D (8:00am—10:30am) Concurrent Session**

**Chair: Thomas Carroll, MD**

**The Westin Philadelphia Hotel, Grand Ballroom, Salon II**

SUNDAY, JUNE 5, 2022  
AGENDA

- 8:00a The Relationship between Vocal Fold Mobility Disorders and Swallowing Disorders  
*Parastou Azadeh Ranjbar, BS, Bailey Balouch, BS, Christopher Yam, MS, Divya Balchander, BS, Ghiath Alnouri, MD, Robert T. Sataloff, MD*
- 8:10 a The Prevalence of Swallowing Disorders in Refractory Laryngopharyngeal Reflux Voice Patients – An Incidental Finding or Clinically Significant Correlation?  
*Parastou Azadeh Ranjbar, BS, Bailey Balouch, BS, Christopher Yam, MS, Ghiath Alnouri, MD, Ahmad Issa Al Omari, MD, Harleen Sethi, DO, Robert T. Sataloff, MD*
- 8:20a Benjamin Defect Voice: Children with Posterior Glottic Defects  
*Linda M. Carroll, PhD, Karen B. Zur, MD*
- 8:30a Assessment of Postoperative Pain and Opioid Consumption Following Laryngeal Surgery: A Pilot Study  
*Parastou Azadeh Ranjbar, BS, Bailey Balouch, BS, Swetha Vontela, MS, Ghiath Alnouri, MD, Robert T. Sataloff, MD*
- 8:40a Discussion
- 8:50a Scarred Vocal Folds and Regenerative Medicine  
*Alexia Mattei, MD, Jérémy Magalon, PhD, Baptiste Bertrand, MD, Cécile Philandrianos, MD, Julie Vêran, PhD, Justin Michel, MD, Florence Sabatier, PhD*
- 9:00a Injectable Porous and Tough Hydrogels for Vocal Fold Repair  
*Sareh Taheri, Guangyu Bao, Sepideh Moammadi, Luc Mongeau, PhD*
- 9:10a Silk-Hyaluronic Acid Office-Based Vocal Fold Augmentation: A Single Surgeon's Initial Experience  
*Elliana K. Devore, MD, Christopher Dwyer, MD, Thomas L. Carroll, MD*
- 9:20a Discussion
- 9:30a Histologic Evaluation of Silk-Hyaluronic Acid Nine Months after Human Vocal Fold Injection  
*Elliana K. Devore, MD, Thomas L. Carroll, MD*
- 9:40a Short- and Long-term Effects of Injection Augmentation with Autologous Adipose Tissue  
*Axelle Felicio-Briegel, Kariem Sharaf, MD, Frank Haubner, MD, Matthias Echternach, MD*
- 9:50a Discussion
- 10:00a Voice Outcome of Glottoplasty in Transgender Women  
*Evelyn D'haeseleer, PhD, Clara Leyns, SLP, Tine Papeleu, SLP, Anke Adriaansens, SLP, Kristiane Van Lierde, PhD, Peter Tomassen, MD*
- 10:10a Surgical Outcome of Blue Laser for Vascular Lesions of the Vocal Fold  
*Bailey Balouch, BS, Parastou Azadeh Ranjbar, BS, Ghiath Alnouri, MD, Ahmad Issa Al Omari, MD, Vishnu Martha, MD, Matthew Brennan, DO, Robert T. Sataloff, MD*

10:20a Discussion

*Care of the Professional Voice 2022*

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## SUNDAY, JUNE 5, 2022

### Medical Session C (8:00am—10:30am) *Concurrent Session*

#### VIRTUAL CONTENT

Exploring the Clinical Characteristics of Superior Laryngeal Nerve Injury

*Liyang Liu, MD*

The Effect of Vocal Fold Movement Abnormality on Voice Function in Patients with Laryngopharyngeal Reflux without Proliferative Lesions

*Xinlin Xu, MD, Xiangpin Li, MD*

Analysis of Vocal Fold Vibration Characteristics of Spasmodic Dysphonia by Laryngeal High-Speed Photography Combined with GAW

*Xinlin Xu, MD, Xi Wang, MD*

Initial Data on the Effects of Laryngeal Vibro-Tactile Stimulation in Laryngeal Dystonia

*Divya Bhaskaran, PhD, Jinseok Oh, MSc, Jiapeng Xu, MSc,*

*Naveen Elangovan, PhD, Arash Mahnan, PhD, Peter Watson, PhD,*

*Jurgen Konczak, PhD*

### The Voice Foundation Board of Directors

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**SUNDAY, JUNE 5, 2022**

**Medical Session D (8:00am—10:30am) Concurrent Session**

**VIRTUAL CONTENT**

Awake Percutaneous Injection Lipo Laryngoplasty for Correction of Glottic Insufficiency  
*Phaniendrakumar Valluri, MD*

Voice Outcomes Following Office-Based Treatment of Vocal Fold Lesions Using the Blue Laser  
*Anthony Ghanem, MD, Christophe Abi Zeid Daou, MD, Christopher Jabbour, MD, Abdul-Latif Hamdan, PhD*

Pitch Discrimination in Speakers with a Voice Disorder  
*Duy-Duong Nguyen, MD, Catherine Madill, PhD, Antonia Chacon, SLP*

10:30a - 11:00a Coffee Break

**Panel (11:00am—12:00pm)**

**Voice Surgery: Interesting Cases and Concepts**

Moderator: Robert T. Sataloff, MD

Panelists: Jean Abitbol, MD, Thomas Carroll, MD, Bridget Rose, CCC-SLP, Harvey Tucker, MD

**Q&A DISCUSSION**

12:00p-1:00p

Lunch Break

Symposium Planning Committee Meeting (TBD)

NATS Informal Lucheon (TBD)

**SUNDAY, JUNE 5, 2022**  
**AGENDA**

## SUNDAY, JUNE 5, 2022

### Voice Pedagogy C (1:00pm—3:40pm) *Concurrent Session*

**Chair: David Meyer, DM**

The Westin Philadelphia Hotel, Grand Ballroom, Salon I

- 1:00p     An Actor's Speech Tools in the 21st Century  
              *Zane Daudzina, Mag. Art*
- 1:10p     Simulation of Vocal Tract Resonance Tuning Strategies With Respect to  
              Fundamental Frequency and Voice Source Spectral Slope  
              *Christian Herbst, PhD, Brad H. Story, PhD*
- 1:20p     Degree of Thyroid Tilt on Same-Pitch Phonation as Determined by Phonation Density -  
              Correlating Systematic Endoscopic Assessment with EGG and Acoustics  
              *Mathias Aaen, PhD, Christoph Noor, PhD, Julian McGlashan, MD,*  
              *Cathrine Sadolin*
- 1:30p     Assessing Attention and Distraction in Solo Voice Lessons  
              *Lauren Guthridge, BM, Kayla Gautereaux, MM, Josh Gilbert, BM, Ian Howell, DMA*
- 1:40p     Perceived Vocal Fatigue and Possible Predictors in Collegiate Vocalists  
              *Zachary Devin, MM*
- 1:50p     Discussion
- 2:00p     Voice Building in Collegiate Studios  
              *Kristen Janell Sullivan, DMA*
- 2:10p     Semi-Occluded Vocal Tract Exercises: Understanding the Prevalence and  
              Purpose of Use within the Collegiate Voice Instructor Population  
              *Kristen Janell Sullivan, DMA*
- 2:20p     Global Inventory and Similarity Rating of Singing Voice Assessment Terms Used at  
              English Speaking Academic Institutions  
              *Josipa Bainac Hausknecht, MM, Kristen M. Murdaugh, MM, Elke Nagl, DMA,*  
              *Christian T. Herbst, PhD*
- 2:30p     Interrupt Cranial Feedback Loops: An Effective Strategy for Hyperfunctional Singers  
              *Mark Baxter*
- 2:40p     Classroom Music Teachers' Beliefs and Practical Experiences about  
              Warm-Ups in the Classroom Music Lessons and in the Children's Choir Rehearsals  
              *Andrea Asztalos, PhD*
- 2:50p     A Focus on the Category of "Singer Type" Within the Demographics of a SVS Practice  
              in a Large Metropolitan City  
              *Sharon Radionoff*
- 3:00p     Discussion
- 3:10p     Closing Remarks



## SUNDAY, JUNE 5, 2022

### Voice Pedagogy D (1:00pm—3:30pm) Concurrent Session

Chair: David Howard, PhD

The Westin Philadelphia Hotel, Grand Ballroom, Salon II

SUNDAY, JUNE 5, 2022  
AGENDA

- 1:00p Register Differences in Vocal Fold Oscillations across Three Octaves in a Female Professional Singer  
*Hugo Lehoux, MSc, Lisa Popeil, MFA, Jan Švec, PhD*
- 1:10p Acoustic, Electroglottographic and Aerodynamic Analysis of Classical and Non-Classical Mexican Tenor and Soprano Singers  
*Carlos Manzano, MD, Maria de la Luz Arenas Sordo, MD, Rafael Alarcón Montero, MD, Marco Guzman, PhD, Antonio Ysunza, MD, Miguel Ángel Villasis Keever, MD, Wendy Castro Camacho, MD*
- 1:20p Vibrato Variability as a Diagnostic, Pedagogical Tool: Timbre Perception of Vibrato Health, Production, and Expression  
*Theodora Nestorova, MM, Lindsey Reymore, PhD, John MacMaster, BA, Gary Scavone, PhD, Isabelle Cossette, PhD*
- 1:30p Does Contact Quotient (Cqdegg) Rise in The Classical Cisgender Female Upper Range? An Argument for The Utility of Measuring per Glottal Cycle Contact Duration  
*Ian Howell, DMA, Xiao Shi, BS, Loren Graziano, MM*
- 1:40p Convergences in the Articulatory Settings of Bulgarian, Russian, and English: Bulgarian Lyric Diction as an Accessible Gateway to Singing in Cyrillic  
*Theodora Nestorova, MM, Jamie Dahman, DMA, McMaster BA, Gary Scavone, PhD, Isabelle Cossette, PhD*
- 1:50p Discussion
- 2:00p Assessing Attention and Distraction in Solo Voice Lessons  
*Lauren Guthridge, BM, Kayla Gautereaus, Josh Gilbert BM, Ian Howell, DMA*
- 2:10p What's in a Name? Everything: The Case for Replacing the Term Contemporary Commercial Music with Afro Canto  
*Mark Baxter*
- 2:20p Pedagogical Strategies to Teach Vocal Runs for CCM Singers  
*Maira dos Santos Jaber, MM*
- 2:30p Formant/Harmonic Coupling Patterns in Contemporary Belt as Observed in "And I Am Telling You" from Dreamgirls as sung by Amber Riley  
*Emily Castleton, MM, David Meyer, DM*
- 2:40p Strategies to Facilitate Effective Learning of Vocal Music  
*Joseph Evans, MS, Monica McHenry, PhD*
- 2:50p Professional Singers Teaching Commercial Styles  
*Edrie Means Weekly, MM, Marquita Lister, MM, Kathleen Mary Bell, DMA*
- 3:00p Phonatory Onset and Its Effect on the Spectral Envelope  
*Kourtney R. Austin, PhD, Sajid Surve, DO*
- 3:10p Discussion
- 3:20p Closing Remarks

## SUNDAY, JUNE 5, 2022

### VIRTUAL CONTENT

Alone, Together: the Dis/embodied Soprano Voice in Oxbridge Chapel Choirs  
*Jessica Edgar, MPhil*

Transitioning Legit Sopranos to a Contemporary Vocal Set Up: Technique Versus Identity  
*Christie Valeriano, MM*

Here, My Voice: Supporting Confidence and Creative Expression in Hard-of-Hearing Persons Through Individual Voice Lessons  
*Juri Hwang, MFA, DJ Johnson, MFA, Michelle Patzakis, DMA, Danielle Barbera, MA*

Physiology of Exercise and Vocal Pedagogy: Calisthenic Reflections  
*Ariel Coelho*

3:40p Adjourn



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WEDNESDAY, JUNE 1, 2022 6:00pm—7:00pm

#### ***Poster Presentation Coaching, Oral Presentation,***

Accent Reduction Coaching

THURSDAY, JUNE 2, 2022 8:00am—11:00am

THURSDAY, JUNE 2, 2022 2:00pm—6:00pm

#### ***Oral Presentation, Accent Reduction Coaching, Alexander Technique***

FRIDAY, JUNE 3, 2022 9:00am—11:00am

#### ***Oral Presentation, Accent Reduction Coaching, Alexander Technique***

SATURDAY, JUNE 4, 2022 9:00am—11:00am

SATURDAY, JUNE 4, 2022 1:00pm—5:00pm

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## Symposium Presentation Coaches

**Janet Madelle Feindel, MFA**, Awarded lifelong honorary membership to Pacific Voice and Speech Foundation "for exemplary contributions to care and pedagogy of the artistic voice". Alexander Technique Teacher (AmSAT, ATC/CanSTAT, ATI), certified Fitzmaurice Voice & Designated Linklater Voice Teacher, Dialect Specialist; author: *The Thought Propels the Sound* (Plural Publishing); Professor Emeritus in Voice/Alexander, School of Drama, Carnegie Mellon. Currently teaches in Montreal. **Available for ZOOM coachings.**

**Diane Gaary, MFA, BA**, is an Alexander Teacher, Voice and Speech Trainer, and Feldenkrais Practitioner™. She teaches at Temple University, Arcadia University, and Westminster Choir College, and maintains private studios in Philadelphia and New York City. **Available for ZOOM coachings.**

**Donna Snow, MFA**, Associate Professor and Head of the Undergraduate Acting Program at Temple University Theater Department, is a Master Teacher in Fitzmaurice Voice Technique. **Available for ZOOM coachings.**

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Wednesday		Time	Thursday	Time	Friday
1:00 PM	Registration			6:45 AM	Advisory Board
2:00 PM	Welcome	7:00 AM		7:00 AM	
2:15 PM	<b>Overview</b>	7:20 AM	Meetings	7:30 AM	Registration
2:30 PM	<i>RT Sataloff</i>	7:25 AM	Quintana Committee		
2:45 PM	Anat & Phys. Of	7:30 AM	Registration	8:00 AM	<b>Special Session</b>
3:00 PM	Production &	7:45 AM	Welcome		Voice and Culture
3:15 PM	Perception of Voice	8:00 AM			
3:30 PM	An Overview	8:12 AM	<b>Basic Science I</b>		<i>Nancy Solomon, Mod.</i>
3:45 PM	<i>S. Patel, J. Sundberg</i>	8:27 AM			<i>Hamdan, Laukka,</i>
4:00 PM	<b>Coffee Break</b>	8:42 AM			<i>Behlau, Morton</i>
4:15 PM	<i>Production...cont</i>	8:57 AM		9:30 AM	Coffee Break
4:30 PM	<i>R. Scherer</i>	9:12 AM			
4:50 PM		9:30 AM	<b>Quintana Lecture</b>		
5:00 PM	<i>Johan Sundberg</i>	9:45 AM	<i>Zhaoyan Zhang, PhD</i>		
5:15 PM		10:00 AM	Coffee Break		
5:30 PM	<i>David Eddins</i>	10:15 AM	<b>Basic Science II</b>	11:00 AM	<i>Panel Discussion</i>
5:45 PM		10:30 AM			
6:00 PM	<i>Linda Carroll</i>	10:45 AM			
6:15 PM		11:00 AM			
6:30 PM	<i>Discussion</i>	11:15 AM			
6:45 PM		11:30 AM	Panel Discussion	11:50 AM	
7:00 PM	Adjourn	11:45 AM		12:00 PM	<b>Lunch</b>
		12:00 PM	<b>Lunch</b>		TVF Board of Directors
		12:15 PM	Meetings		Young Laryngologists
		12:30 PM	JOV Editorial Board		
		12:45 PM	Pres. Outreach	1:30 PM	<b>Workshops</b>
		1:00 PM			Session I
		1:15 PM		2:25 PM	
		1:30 PM	<b>Keynote Speech</b>	2:30 PM	<b>Workshops</b>
		1:45 PM	<i>Kristina Simonyan,</i>		Session II
		2:00 PM	<i>MD, PhD, Drmed</i>	3:25 PM	
		2:15 PM		3:30 PM	<b>Workshops</b>
		2:30 PM	<b>Basic Science III</b>		Session III
		2:45 PM		4:25 PM	
		3:00 PM		4:30 PM	<b>Workshops</b>
		3:20 PM	Panel Discussion		Session IV
		3:35 PM			
		3:50 PM		5:25 PM	
		4:00 PM	<b>Poster Session I</b>		
		4:15 PM	and Coffee	6:00 PM	<b>TICKETS REQUIRED</b>
		4:30 PM			<b>Gala Cocktail Reception</b>
		4:45 PM			<b>Dinner</b>
		5:00 PM	<b>Poster Session</b>		
		5:15 PM			<b>Voices of Summer</b>
		5:30 PM			<b>Gala (Black Tie)</b>
		5:45 PM	Dinner		
		6:00 PM			
		6:15 PM			
		6:30 PM	Special Session		
		7:00 PM			
		7:30 PM	Adjourn		
		8:30 PM			<b>VERA AWARD</b>
					<b>Dancing</b>
		11:30 PM		11:30 PM	

Time	Saturday		Time	Sunday	
7:00 AM	Meetings		7:00 AM	NATS Voice Science Advisory Committee	
7:20 AM	New Investigator Research Forum		7:15 AM		
7:35 AM	7:00am - 7:50am		7:30 AM	Registration	
7:30 AM	Registration		7:45 AM		
8:00 AM	Medical A	Medical B	8:00 AM	Medical C	Medical D
			8:15 AM		
			8:30 AM	Discussion	Discussion
			8:50 AM		
	Discussion	Discussion		Discussion	Discussion
9:50 AM	Coffee Break		10:30 AM	Coffee Break	
10:10 AM	<b>PANEL</b> <b>Gender Affirming Voice Care: Choices and Challenges</b>		11:00 AM	<b>PANEL</b> <b>Voice Surgery: Interesting Cases and Concepts</b>	
11:10 AM	<b>Awards</b> <b>G Paul Moore Lecture</b> <i>Michael M. Johns III, MD</i> <b>My Journey in Aging Voice</b>			<i>RT Sataloff, Mod.</i> <i>Abitbol, Carroll, Rose, Tucker</i>	
12:00 PM	<b>LUNCH</b> Local Chapters Meeting Voice Lab Reps		12:00 PM	<b>LUNCH</b> Symposium Planning Committee	
1:00 PM	Speech Path A	Speech Path B	1:00 PM	Vocal Ped C	Vocal Ped D
			1:50 PM	Discussion	Discussion
1:50 PM	Discussion	Discussion			
3:00 PM	Coffee Break				
3:30 PM	Speech Path A Cont.	Speech Path B Cont.			
			3:10 PM	Discussion	Discussion
5:00 PM			3:20 PM	Closing Remarks RT Sataloff	
5:30 PM	Dinner		3:30 PM	Meeting Adjourned	
6:10 PM	Voice Pedagogy A	Voice Pedagogy B			
7:15 PM	<b>MASTER CLASS</b> <i>Vladimir Chernov</i>				
8:30 PM	<i>Reception</i> <b>Sing-Along with Grant</b>				

**Times subject to change**

**SATURDAY, SUNDAY**  
AGENDA

**Meetings****Thursday, June 2**

Quintana Award Committee  
7:20a - 8:10a  
The Board Room

Journal of Voice Editorial Board  
12:00 - 1:00p  
The Georgian Room

Presentation Outreach Committee  
12:00 - 1:00p  
The Board Room

**Friday, June 3**

TVF Advisory Board  
6:45a - 8:00a  
The Directors Room

TVF Board of Directors  
12:15p - 1:30p  
The Board Room

Young Laryngologists  
12:00p - 1:45p  
The Directors Room

**Saturday, June 4**

New Investigator Research Forum  
7:00a - 7:50a  
The Board Room

Voice Laboratory Representatives  
12:00p - 1:00p  
The Georgian Room

Voice Foundation Local Chapters  
12:00p - 1:00p  
The Directors Room

**Sunday, June 5**

NATS Voice Science Advisory  
Committee  
7:00a-8:00a  
The Director's Room

Symposium Planning Committee  
12:00pm - 1:00pm  
TBD

NATS Informal Luncheon (TBD)



## Chapter Leaders

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Elizabeth Benson  
Valerie Accetta  
Luvada A. Harrison  
Janice Sullivan Stoll  
Brandon Marcus  
Mollie A. Adams

### Atlanta

Brian Petty  
Eva van Leer  
Marina Gilman  
Adam Klein

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Doug Roth  
Jared Trudeau

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Janis Deane  
Kimberly Chachere-Coker  
Amy Hamilton

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Amy Morris  
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Kathryn Waugh  
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Beth Amin

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S.Ramachandradeddy  
A.R.N.Tagore  
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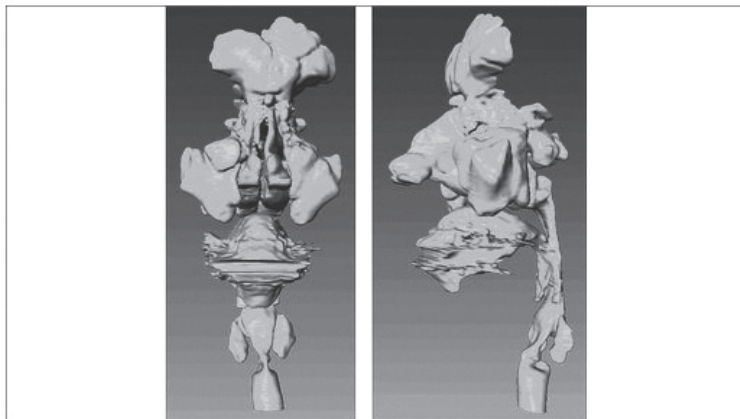
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## **NATS Members**

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**52<sup>nd</sup> Annual Symposium:  
Care of the Professional Voice 2023  
Wednesday, May 31 - Sunday, June 4, 2023**

**CALL FOR PAPERS, POSTER AND WORKSHOP PROPOSALS**

Deadline: October 31, 2022

Abstracts must represent **original work that has not been published elsewhere**. Completed manuscripts must be submitted by the day of presentation at the Symposium and must be submitted for consideration for publication in *Journal of Voice*, unless prior arrangements have been made. There is also a New Investigators Research Forum for works in progress.

Voice professionals are invited to submit a proposal for a **workshop** to be considered for presentation at The Voice Foundation's 2023 Symposium. As you prepare your submission, please keep in mind that the focus of the workshop should be on the "live" demonstration of your techniques with singers, actors, patients, or audience members. The workshop duration is 55 minutes, and we request that you plan for the majority of the session to be spent in hands-on interaction with the participants. Be advised that workshops should be designed to be presented without the use of audiovisual aids such as overhead projectors, slide projectors, or videotapes.

**VAN L. LAWRENCE FELLOWSHIP**

Deadline: November 15, 2022

The Fellowship is open to members of the National Association of Teachers of Singing who are actively engaged in teaching, have demonstrated excellence in their profession as singing teachers, and have shown interest in and knowledge of voice science.

For more information please contact [journal@voicefoundation.org](mailto:journal@voicefoundation.org)

**QUINTANA AWARD**

Awarded every year, the Quintana Award is given in recognition of exceptional contributions to the understanding or treatment of the voice by application of engineering principles or techniques.

Appropriately-documented nominations for the Quintana Award are welcomed.



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The Voice Foundation's 51<sup>st</sup> Annual Symposium:  
Care of the Professional Voice

June 1 —JUNE 5, 2022  
The Westin Philadelphia  
Philadelphia, Pennsylvania, USA

The Voice Foundation  
219 N. Broad St. 10FL  
Philadelphia, PA 19107 USA  
(215) 735-7999  
Fax (215) 762-5572

[www.voicefoundation.org](http://www.voicefoundation.org) [office@voicefoundation.org](mailto:office@voicefoundation.org)

Symposium registration is available online at:  
<http://voicefoundation.org/annual-symposium/register/>

Registration completed before April 24, 2022 qualifies for a discounted rate.

Please see page 38 of the 2022 Symposium program for registration pricing and further information.

Hotel reservations can be made online at: <https://bit.ly/3wtwwBI>  
Please book by May 1, 2022 for the group rate.



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