Jointly provided by The Voice Foundation and the American College of Surgeons in collaboration with Drexel University College of Medicine, Temple University, The American Institute for Voice and Ear Research, and the Academy of Vocal Arts.
Information Available Soon
Please Note:

Currently, only the **presenting authors** are listed on this program.

A final version of the program will be posted soon.

**Newsletter Editors**
Mary Sandage, PhD
Kim Steinhauer, PhD

**NATS/TVF Chat Moderation**
Kari Ragan, DMA
Margaret Baroody, MM

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**The Voice Foundation**

**thanks**

**Elsevier**

for sponsoring the **Sataloff Young Investigator’s Award**

at the

**50th Anniversary Symposium**

**Care of the Professional Voice**
Welcome to the 50th Annual Symposium
Care of the Professional Voice

Program Committees

**Scientific Program**
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Nancy P. Solomon, Johan Sundberg

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Michael M. Johns
Robert T. Sataloff

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Thomas Murry, Robert T. Sataloff

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David Meyer, Scott McCoy
Robert T. Sataloff

**Panels**
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Young Laryngologists

**Young Laryngologists**
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Joel Portnoy, David Rosow
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Kristiane van Lierde

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Robert T. Sataloff, Chair
Margaret Baroody
Carole Blankenship
Brian Gill
Adam Rubin
Josef Schlomicher-Thier
Welcome to the Joint Meeting
CoMeT and The Voice Foundation

8:00a Welcome to the CoMeT Session of The Voice Foundation Meeting
R. Eugenia Chávez, M.D., Ph.D, President, CoMeT

8:05a Maximum Aerodynamic and Acoustic Power Transfer from The Glottis to the Vocal Tract
Ingo Titze, PhD

8:25a Analysis of the DKG Waveform from High-Speed Video
Peak Woo, MD

8:40a Are Voice Clinicians Interested in Functional Relationships?
Sten Ternström, PhD

8:55-9:10a DISCUSSION

9:10a Acoustic Filtering of A Selection of Face Masks
Ronald C. Scherer, PhD, Anna Birkemeier

9:25a Clinical Characteristics of Singers Attending a Phoniatric Outpatient Clinic in France
Nathalie Henrich Bernardoni, PhD

9:40a Phoniatric Evaluation and Osteopathic Manipulative Treatment (OMT) In a Patient with Dysphonia from Forestier’s Syndrome
Orietta Calcinoni, MD, Valentina Carlile, DO

9:55-10:10 DISCUSSION

10:10a Female Voice-Related Sexual Attractiveness to Males: Does It Vary with Different Degrees of Conception Likelihood?
Filipa M.B. Lã. PhD

10:25a Influence of Vowel Quality Changes on Vocal Fold Oscillation Patterns
Matthias Echternach, MD

10:40a Astaxanthin As Treatment of Glottal Dysplasia in A Vocal Professional: Potential Adjuvant Therapy?
Lucinda Halstead, MD
THE VOICE FOUNDATION

WEDNESDAY, JUNE 2, 2021

10:55:00 AM - 11:10 AM  DISCUSSION

11:10-11:15  Coffee Break

11:15a  Respiratory Allergies and Food Intake in Artists During Pandemic
        R. Eugenia Chávez, MD, PhD

11:30a  Voice Pathology in Professional Singers: Is It A Matter of Style?
        Isobel García-López, MD

11:45a  Aerosol Emission in Singing – Influence of Vocal Loudness, Singers’ Age
        and Voice Classification
        Dirk Muerbe, MD

12:00-12:15  DISCUSSION

12:15p  Microsurgery for Benign Lesions in Performing Vocalists
        Michael S. Benninger, MD

12:30  My Last 2500 Operations Under General Anaesthesia- Complications,
        Trends and Pathways: A Personal Audit of My Database
        John Rubin, MD

12:45:00p - 13:00p  DISCUSSION

1:00pm - 2:00pm  Lunch  Chapters Meeting
THURSDAY, JUNE 3, 2021

7:50a Opening Remarks
Introduction and Welcome
Robert T. Sataloff, M.D.

Basic Science Session I (8:00am - 9:30am)

Session I: Phonatory Modeling – Phonation Mechanics and Measures
Chair: Charles Larson, PhD

8:00a Control of The Pre-Phonatory Vocal Fold Posture in The Larynx Model Synthvoice
Stefan Kniesburges, Ph.D.

8:12a Computational Neuromuscular Control of Intrinsic Laryngeal Muscles for Voice Production
Anil Palaparthi, M.S.

8:24a Effect of Interferential Current Stimulation to The Neck on Vocalization in Guinea Pigs
Yoichiro, Sugiyama, M.D.,

8:36a 3d-Printed Synthetic Vocal Fold Models
Scott L. Thomson Ph.D.

8:48a-9:00a Panel DISCUSSION Moderator: Charles Larson, PhD
Medical Panelist:
Panel: Kniesburges, Palaparthi, Sugiyama, Thomson

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

Chair: Robert T. Sataloff PhD

The Modeling of Vocal Fold Vibration for A Few Clinically-Related Conditions
Jack Jiang, MD, PhD

Dr. Jack Jiang’s research is focused on the pathophysiology of voice. He is currently the Director of International Cooperative Research for the Dept. of Surgery and the Director of the Dept. of Otorhinolaryngology Biomedical Engineering. Thus far, he has published 300 articles, with 7,000 citations and an h-index of 47. In 2002, Dr. Jiang won the Presidential Early Career Award for Scientists and Engineering. He is also a Fellow for the American Hearing and Speech Association (ASHA) and the American Laryngological Association (ALA).

After graduating from Shanghai First Medical College (now Fudan University Shanghai Medical College), he received his Ph.D. from the University of Iowa where he studied under the direction of Ingo Titze. He has served as an associate professor of otolaryngology in the Dept. of Head and Neck Surgery at the Northwestern University School of Medicine. Since 2001, he has
been a tenured professor with the Dept. of Surgery, Division of Otolaryngology at the University of Wisconsin School of Medicine and Public Health. He is currently an adjunct professor and director for the laryngology division at Fudan University.

**Basic Science Session II  (10:00am - 11:30pm)**

**Phonation Mechanics and Measures**

**Chair:** Johan Sundberg, PhD

10:00a  **Effect of Epilaryngeal Narrowing on The Peak Vocal Fold Contact Pressure During Phonation**  
Zhao Yan Zhang, Ph.D.

10:12a  **Systematic Analysis of Phonation Modes in Singing Voice Using Glottal Source Features**  
Sudarsana Reddy Kadiri, PhD

10:24a  **Post-Surgery Changes in Vocal Fold Closing Velocity in Patients with Mass Lesions**  
Hamzeh Ghasemzadeh, Ph.D.

10:36a  **Glottal Attack Time and Glottal Offset Time Comparison Between Vocally Normal Speakers and Patients with Adductor Spasmodic Dysphonia During Connected Speech**  
Maryam Naghibolhosseini, PhD

10:48a  **Closure of The Posterior Glottis during Singing: True or Not?**  
Claudio Storck, MD

11:00a-  **Panel DISCUSSION: Moderator Johan Sundberg, PhD**
**Medical Panelist:**  
Panel: Kniesburges, Palaparthi, Sugiyama, Thomson

11:30p  **Lunch Break**

*Meeting of Journal of Voice Editorial Board*

**Chair:** Robert T. Sataloff (11:30 - 12:30p)

*Presentation Outreach Committee Meeting*
On Vocal Loudness

Dr. Ingo R. Titze has served as Director of the National Center for Voice and Speech since 1990, which is currently headquartered at the University of Utah. He is also a University of Iowa Foundation Distinguished Professor of Voice, Speech, and Vocal Music.

He has published 450 articles in scientific and educational journals. His book publications include Principles of Voice Production (1994), The Myoelastic-Aerodynamic Theory of Phonation (2006); in collaboration with Katherine Verdolini, Vocology: The Science and Practice of Voice Habilitation (2012); and Fascinations with the Human Voice (2010), which is printed in eight languages. His research interests include biomechanics of human tissues, acoustic phonetics, speech science, voice disorders, professional voice production, and the computer simulation of voice. His formal training is in Electrical Engineering (MS) and physics (PhD).

Dr. Titze is a founding member and first elected President of the Pan-American Vocology Association. He has administered and taught in the Summer Vocology Institute, the premiere Vocology training program, for 18 years. His professional affiliations include the Acoustical Society of America, The National Association of Teachers of Singing, the American Speech Language Hearing Association, and the American Laryngological Association. Honors include The Gould Award for outstanding research in laryngeal physiology (1984), and the Silver Medal Award from the Acoustical Society of America (2007).

Basic Science Sessions III  (2:00pm - 3:30pm)

Voice Potpourri - High Speed Video, Perception, and Acoustic Measurement
Chair: Ronald C. Scherer, PhD

2:00p  External Validity of Calibrated Measurements from A Laser-Projection Transnasal Fiberoptic High-Speed Videendoscopy System
Hamzeh Ghasemzadeh, PhD

2:12p  Automated Glottis Obstruction Detection in High-Speed Videendoscopy During Connected Speech for Patients with Adductor Spasmodic Dysphonia
Ahmed M. Yousef, M.Sc.

2:24p  Effects of Covarying Breathiness and Roughness on Dysphonia Severity in Natural Voices
Supraja Anand, PhD,
## Thursday, June 3, 2021

<table>
<thead>
<tr>
<th>Time</th>
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| 2:36p  | Depth of Endoscope Insertion into The Mouth: Deriving the Mouth-To-Microphone Distance for Reporting Sound Pressure Levels of Voice in Rigid Laryngoscopy  
Jan G. Svec, PhD, |
Christian T. Herbst, PhD, |
| 3:00p-  | Panel DISCUSSION: Ronald C. Scherer, PhD  
Medical Panelist:  
Panel: Ghasemzadeh, Yousef, Anand, Svec, Herbst |
| 3:30p  | Medical Panelist:  
Panel: Ghasemzadeh, Yousef, Anand, Svec, Herbst |
|        | **Poster Session** (3:30pm - 5:00pm)**                                      |

**Chair: Ronald C. Scherer, PhD**

**Is an Aquatic Setting an Alternative Way to Deliver Speech Therapy in Patients With Bilateral Vocal Fold Nodules? A Retrospective Study**  
Rita Alegria, SLP

**Voice Therapy Delivered in A Water-Based Setting for Unilateral Vocal Fold Paralysis: A Case Report**  
Rita Alegria, SLP

**Use of A Vortex Whistle for Measures of Respiratory Capacity**  
Shaheen N. Awan, Ph.D.,

**Toward the Development of Vocal Injury Prevention Model: A Literature Review**  
Arianna Basty, B.S.

**The Control of Vibrato In “Crossover” Singers**  
Alyssa Becker, M.M.

**Vocal Health Education for Preservice Music Educators**  
Susan Baker Brehm, Ph.D.,

**Biomechanical Analysis of a Patient with Reinke’s Edema Before and After Surgical Treatment. Case Report**  
Isabel Cardoso, M.D.

**Relationship Between Sleep and Stress with Voice Acoustic Parameters Among College Professors**  
Andrés Carrillo-González, B.S.

**Evaluation of Factors Affecting Speech-Specific Quality of Life in Patients After Total Laryngectomy**  
Hiu Fung Chan, M.Sc.

**Automated Quantification of Inflection Events in The Electroglottographic Signal**  
Juliana Codino, CCC-SLP, M.S.
Influence on Spectral Energy Distribution of Emotional Expression  
Soledad Correa, M.D.,

Identifying the Impact of Vocal Hygienic Advice on The Voice of University Lecturers  
Francesca D’Alessandro, B.A.

Relationship Between Vocal Symptoms and Vocal Handicap Index in University Professors  
Gabriel Trevizani Depolli

Effect of Flow Phonation Voice Exercises on Vocal and Aerodynamic Measures in Undergraduate Student Singers  
Jorge Andres Diaz, B.M.

Resonance Tube Therapy in Individuals with Parkinson’s Disease: Clinical Trial  
Ana Paula dos Santos, CCC-SLP, M.S.

The Relationship Between the Voice Handicap Index, The Voice-Related Quality of Life, And the Vocal Fatigue Index in Csd Graduate Students  
Marina Englert, Ph.D.

Validation of The Acoustic Voice Quality Index and The Acoustic Breathiness Index in The Brazilian Portuguese  
Marina Englert, Ph.D.

The Impact of Languages and Cultural Backgrounds on Voice Quality Analyses  
Marco Fantini, M.D.

The Influence of Laryngeal Adductory Effort and Glottic Behavior on the Vibratory Mechanisms: An Exploratory Study  
Leidy Lorena Forero Suárez, M.Sc.

Program for The Promotion of Vocal Health and Low Levels of Stress in The Workplaces of University Teachers.  
Veronica Alexis Gonzalez, SLP, M.S.

Effects of A Voice Therapy Program for Male to Female Transgender Individuals  
Mary Gorham-Rowan, Ph.D.

Training Audio-Perceptual Ratings: Effects on Rater Confidence  
Renee Gottliebson, Ph.D.,

An Assessment of Different Praat Versions for Acoustic Measures Analyzed Automatically by Voiceevalu8 And Manually by Two Raters  
Jeremy Wolfberg, B.A.

An Assessment of Perceptual Measures Administered by Paper and Pencil and bby the Voiceevalu8 App  
Brigit Corej

A New Vocal Tract Organ for Keyboard And/Or Multiple Performer Control  
David Howard Ph.D.,
Realization of Vocalizzi as A Tool for Vocal Training and Therapy in Singers, through the Use of The Keyboard
Gonzalo Nicolas Inostroza - Moreno, SLP

Caring in Distance: Training Future Clinicians for Remote Voice Evaluation
Keikon Ishikawa, Ph.D., CCC-SLP, M.M.

Multi Sensorial Imagery Strategy for The Mix Voice Learning: A Preliminary Study with Female Singers
Maira Dos Santos Jaber, M.M.,

Psychological and Daily Life Impacts of Sars-Cov-2 On the Transgender Non-Conforming Community
Hannah Laura Khorassani, B.S.

The Impact of Telehealth on Voice Therapy Attendance
Samantha Kridgen. M.S.

DISCUSSION on The Safety of Endotracheal Intubation Anesthesia for Laryngeal with Small Inner Diameter in Anesthesia for Laryngeal Microsurgery
Yunyi Liu, Ph.D.

Using the Cape-V to Rate Roughness and Breathiness: Differences Among Expert Clinicians
Kathleen F. Nagle, Ph.D.,

Perceptual Discrimination of Pitch, Loudness and Overall Voice Severity In 6-To 8-Year-Old Children
Estella P.-M. Ma, Ph.D.

An Eclectic Voice Habilitation Program for Hyperfunctional Voice Disorders (Hfvd)-- An Evaluation by Rct
Shenbagavalli Mahalingam, SLP

Behavioral Choices That Impact Vocal Fatigue
Monica McHenry, Ph.D.

Relationship Between Self-Efficacy and Reliability in Student Perception of Voice Quality Features
Mallory Aryn Meuser, B.S.

Activated Macrophages Immunoregulate Vocal Fold Fibroblasts Behaviour
Sepideh Mohammadi, M.Sc.

Components of Healthcare Disparities for Voice and Upper Airway Disorders: A Theoretical Framework
Mariah E. Morton, CCC-SLP, M.S.

Immediate Effect of The Application of Transcutaneous Electrical Nerve Stimulation Associated with Vocal Exercises in Dysphonic Women
Gabriela Campos Moura, CCC-SLP

Voice Awareness Among Fitness Trainers in India Abstract
Priyanka Suresh Nayak, SLP
Analysis and Interpretation of Complex Vibrato Patterns: Deriving Novel Parameters of Variable and Irregular Vocal Vibrato  
  Theodora Ivanova Nestorova, M.M.

Effect of Mask and Face Shield on Voice and Speech Characteristics  
  Katia Ortiz, B.S.

Why Do Experts Disagree About the Vocal Physiology They Hear?  
  Polina Proutskova, Ph.D.

In Vitro Analysis of Polymeric Microspheres Containing Human Vocal Fold Fibroblasts for Vocal Fold Lamina Propria Regeneration  
  Alicia Reyes, M.Sc.

Real-World Audio Experiences Can Be Transparently Recreated in Virtual Reality  
  Florence May Roberts, M.Sc.

A Low-Cost Approach to Sound Intensity Calibration in Recording and Voice Acoustic Analysis  
  Marilia Carvalho Sampaio, Ph.D., SLP

Maximum Phonation Time, Maximum Expiration Time, And The S/Z Ratio in Twins  
  Eugenia San Segundo, Ph.D.

Vocal Acoustic Measurements Behavior in The Dermatoglyphic Profiles of Voice Professionals  
  Émile Rocha Santana, SLP, B.S., MPH

The Association Between Vocal Resonance and Vocal Quality  
  Émile Rocha Santana, SLP, B.S., MPH

Inflammatory Myofibroblastic Tumor of The Larynx: Report of A Case  
  Torunn Elise Sivesind, M.D.

Changes to The Female Singing Voice During Puberty: A Review of The Literature  
  Emily Sobieski, B.M.

Healthy Singing Practices: An Analysis of Body Mapping in Vocal Pedagogy  
  Sarah Katherine Stapleton

Students’ Experience with Vocal Injury in Undergraduate Performing Arts Training Programs  
  Christine Suddeth, B.F.A.

Incidence of Leng Findings for Vocal Fold Paresis in Voice Patients Who Play Wind Instruments, Either Past or Present  
  Valerie Trollinger, DME, Ghaith Alnouri, M.D.
Voice Fatigue and Changes After Increased Rate of Speech as A Vocal Loading Task  
Lakshmi Maya Venkitachalam, SLP, M.A.

The Effect of Vocal Intensity Mode on Acoustic and Aerodynamic Measures in People with Parkinson’s Disease  
Christopher R. Watts, Ph.D.,

The Effect of Bilingualism on The Voice of Spanish-English Bilingual Speakers  
Josse Mia Webster, B.S.

Pre- and Post-Operative Voice Therapy: Factors Influencing A Complex Intervention  
Anna Charlotte White, SLP, M ClinRes

Pre- and Post-Operative Voice Therapy for Benign Vocal Fold Lesions: A Systematic Scoping Review  
Anna Charlotte White, SLP, M ClinRes

Evaluation of Graduate and Undergraduate Students’ Ability to Detect Pathological Qualities and Assign Severity Ratings Using The Girbas Scale  
Anna Charlotte White, SLP, M ClinRes

The Effect of Face Masks on The Vocal Fatigue of Teachers  
Judith, Maige Wingate, Ph.D.,

Virtual Exploration of The Human Vocal Tract  
Daniel Ryan Michael Woods, M.Sci

Expression and Clinical Significance of Interleukin-10 (Il-10), Transforming Growth Factor B-1 (Tgf-B1) and Inducible Nitric Oxide Synthase (Inos) In the Process of Vocal Fold Leukoplakia Canceration  
Yongjing You, Ph.D.

Efficacy of Straw Phonation in Prevention of Vocal Fatigue in Teachers  
Crystal W.N. Yuen, M.S.T

The Effect of Aural Modeling on Vowel Vs. Consonant Duration in Undergraduate Western Classical Singing  
Dana Zenobi, D.M.A.,

The Influence of Voice Training on Vocal Learners’ Supraglottal Activities and Aerodynamic Evaluation  
Peiyun Zhuang, M.D.
Special Session (6:00pm - 7:00pm)

Singing - Registers, Acoustic Interactions, and Respiration
Chair: Johan Sundberg

6:00p  Half A Century of Research on Singing-Voice Registers: Knowledge and Mysteries
       Nathalie Henrich Bernardoni, PhD

6:15p  Breathing for Western-Classical Singing in Two Body Positions
       Peter J. Watson, PhD

6:30p  Characterization of Source-Filter Interactions in Vocal Vibrato Using
       Neck-Surface Accelerometry
       Rosemary A. Lester-Smith, PhD

6:45p- 7:00p  Panel DISCUSSION: Moderator Johan Sundberg
               Medical Panelist:
               Panel: Ghasemzadeh, Yousef, Anand, Svec, Herbst

7:00p- 7:30p  Coffee Break

VAN L. LAWRENCE FELLOWSHIP

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 contact office@voicefoundation.org

Deadline: November 15
Thursday, June 3, 2021

Speech-Language Pathology Session IA (7:30pm - 10:00pm)

Chair: Elizabeth Heller Murray, PhD

7:30p  Aerosol Generation in Voice and Speech: A Systematic Review
       Antonia Margarita Chacon, SLP

7:40p  Respiratory Particle Emission During Voice Assessment and Therapy
       Lauren Timmons Sund, M.D.

7:50p  Developing Educational Health Modules to Improve Vocal Wellness in
       Mask-Wearing Occupational Voice Users
       Victoria S. McKenna, PhD, Renee L. Gustin, CCC-SLP

8:00p  Intelligibility in Auralized Classrooms: The Effect of Dysphonia
       Pasquale Bottolicio, PhD

8:10p  Effect of Dysphonic Speech on Intelligibility in Primary Classrooms
       Pasquale Bottolicio, PhD

8:20p  Impact of Pediatric Dysphonia on the Relationship Between Vocal
       Control and Articulatory-Vocal Coordination
       Elizabeth Heller Murray, PhD

8:30p  Cognitive Mechanisms in Pediatric Voice Therapy
       Hagar Feinstein, SLP

8:40p  DISCUSSION

8:50p  A Scoping Review of The Effectiveness of Voice Therapy to Treat Older
       Adults with Presbyphonia
       Hyunhwa Lee, SLP

9:00p  Physiological Effect of Voice Therapy for Aged Vocal Fold Atrophy
       Revealed with EMG Study
       Mami Kaneko, PhD

9:10p  The Perception of Severe Vocal Dysphonia: Attractiveness Associated
       with Age
       Francisco Contreras-Ruston, SLP

9:20p  Listeners’ Attitudes towards Young Women Using Glottal Fry
       Nathalie Foulks, SLP

9:30p  Beauty and Attractiveness in the Human Voice
       Brian E. Petty, CCC-SLP

9:40p  Age and gender differences in Dutch intonation
       Evelien D’Haeseeleer, PhD

9:50p - 10:00p DISCUSSION

Adjourn
Agenda

Chair: Kristiane van Lierde

7:30p  The Sound of The Voice: An Interactive Play Between the Ears and the Eyes?
       Kristiane Van Lierde, PhD

7:40p  Exploring Novel Constructs of Communicative Congruence and Dysphoria in The General Population
       Brett Welch, CCC-SLP

7:50p  Development of Auditory-Perceptual Skills in Graduate Students Through Consistent Training
       Maria Claudia Franca, PhD

8:00p  Comparison of Two Voice Therapy Models
       Elizabeth Grillo, PhD

8:10p  Similarities and Differences Across Voice Case History Questionnaires - A Scoping Review
       Renee Krosch, B.A.ppSc

8:20p  The Relation Between Vocal Fatigue, Depressivity And Somatoform Disorders
       Lydia Elaine Streppenbeck, MA

8:30p  Cortical and Acoustical Correlates of Vocal Clarity When Adopting to Internal Vs. External Focus of Attention
       Katherine Verdolini-Abbott, PhD

8:40p  DISCUSSION

8:50p  Voiced Whistle: A Novel Approach to Decrease Vocal Hyperfunction
       Nandhu Radhakrishnan, PhD

9:00p  Experiences of Speech-Language Pathologists in The Rehabilitation of Unilateral Vocal Fold Paralysis
       Imke Kissel, MSc

9:10p  Effects of Gargle Phonation in Patients with Muscle Tension Dysphonia
       Diana Orbelo, PhD

9:20p  Recovery Patterns After Vocal Loading Using Pressed Voice Quality in Normal Adults
       Bhuvaneshwari Senthilkumar, SLP

9:30p  Impaired Pitch Matching in A Professional Singer After Cochlear Implant: A Case Study
       Leda Scearce, CCC-SLP

9:40p  Gamification of Vocal Hygiene and Preventing Phonotrauma: Focusing on Hydration: A Qualitative Study
       Julie Herrig, BA

9:50p - 10:00p  DISCUSSION

Adjourn

Care of the Professional Voice 2021
FRIDAY, JUNE 4, 2021

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

Personality and the Voice

Moderator: Nancy P. Solomon, PhD

8:00a  Personality: Voice Patients Are Full of It!  
       Nancy P. Solomon, PhD

8:10a  Models and Measures of Personality for Predicting Performance  
       Chris Patrick, PhD

8:50a  What’s Personality Got To Do with Voice Disorders?  
       Uncovering Neurobiological Mechanisms  
       Miriam van Meersbergen, PhD

9:15a  Just Relax!? Negotiating Stress for Vocal Well-Being  
       Maria Dietrich, PhD

9:40a  Coffee Break

10:10a  Personality in Children with Vocal Nodules: Why It Matters  
       Nelson Roy, PhD

10:40a  Both Speakers and Listeners Bring Personality to the Communication Table  
       Leah Helou, PhD

11:00a-12:00p  DISCUSSION  
       Moderator:Nancy P. Solomon, PhD  
       Panel: Patrick, van Meersbergen, Dietrich, Roy, Helou

12:00p  Lunch (on your own)

12:00p - 1:00p Advisory Board Meeting  
       Chair: Michael M. Johns III, MD

1:00pm - 2:00pm Voice Foundation Board of Directors Meeting  
       Chair: Robert T. Sataloff, MD
Workshops Session I (1:30pm-2:25pm)

Singing Voice

**Inspiratory Muscle Training for the Voice Studio**
Rachel B. Goldenberg, DMA, Jessica DeMars, BSc

**SOVTraining: a Multidisciplinary Approach to Vocal Tract Semi-Occlusion for Voice Training**
Claudio Fabro, MM, Vittoria Carlino, SLP, Marco Fantini, MD

**Watch Your Tongue! Insights into and Strategies on Tongue Physiology and Acoustic for the 21st Century Voice Studio**
Angelika Nair, PhD

Musical Theater/Pop/Rock/CCM

**Singing Brazilian Jazz: A Better Understanding of the Vocal Style and the Brazilian Portuguese Pronunciation**
Maria Dos Santos Jaber, MM

Young Voices

**The Estill Adventure for Children: Figures for Beginners!**
Kimberly Steinhauer, PhD, Mary McDonald Klimek, CCC-SLP

Acting Voice

**Word Becomes Flesh: Acting Techniques for Rediscovering the Physical Nature of Language & Bringing Written Text to Life in Reading, Oratory, and Performance.**
Acacia Danielson

Voice and Movement

**The Empowering Role of Movement in Voice Pedagogy**
Joan Melton, PhD

**Embodied Self Presence – Manual Voice Therapy**
Michele G. Fava, MS

Rehabilitation of the Injured Speaking Voice

**Aging Voice Therapy, Where does PhoRTE Fit?**
Edie Hapner, PhD, Aaron Ziegler, PhD

Voice Science/Technology

**Cost-Effective Aerodynamic and Acoustic Measures for Singing Voice Education**
David Meyer, DM
FRIDAY, JUNE 4, 2021

Workshops Session II (2:30pm-3:25pm)

Acting Voice

Stand your Ground and Expand - Acting Text
Janet Madelle Feindel, MFA

Musical Theater/Pop/Rock/CCM

Retraction and Increased Resonance Strategies for Musical Theatre and CCM Singers
Ana Flavia Zuim, PhD

What is Authentic “Crossover” Singing?
Jeannette L. LoVetri

Singing Voice

The Pedagogic Implications of Absolute Spectral Tone Color on Vowel Motivation and Modification
Kenneth Bozeman, MM

Warm up with Whistle Training
Erika Biavati

Let Diction Ring! Strategies for Effective Singer’s Diction in the Studio, Classroom, and Choral Rehearsal
Brenda Smith, DMA

Young Voices

Correction of Children’s Vocal Production Problems
Andrea Asztalos, PhD

Rehabilitation of the Injured Voice

Manual Therapy for Voice Disorders: Appreciating the Complexities of a Seemingly Simple Model
Walt Fritz, PT

Rehabilitation of the Injured Speaking Voice

Cricothyroid Visor Maneuver (CVM): A New Treatment Protocol for Muscle Tension Dysphonia
Ali Dehghan PhD, Kirrie J. Ballard PhD

Don’t Scratch That Itch: Behavioral Management of Chronic Refractory Cough
Miranda Wright, CF-SLP, Brienne Hennessy, MS, CCC-SLP

Body Awareness and Voice

Introduction to Mindfulness and Meditation
Carissa Maira, MS, CCC-SLP
Singing Voice

The Messa di Voce for Vernacular Styles
Norman Spivey, DMA, Mary Saunders-Barton, MA

Tone Deaf Performers: What to Do
William Riley, MM

Demystifying Resonance, Laughter, Throat Clearing and Coughing: Providing People Along the Gender Spectrum with the Tools to Play Their Vocal Instrument
Sandy Hirsch, CCC-SLP

Musical Theater/Pop/Rock/CCM

Supraglottic Extreme Voice Workshop
Eleonora Bruni

Twang as a Strategy for High Notes Production in CCM Singers
Carolina Aviles Carolina Aviles

Young Voices

Getting YOUNG Voices Going...
Jeanne Goffi-Flynn, EdD

Body Awareness and Voice

Yoga Used as a Development Tool for Breathing in Singing
Laura de Souza, PhD

Voice Science/Technology

Real-Time Mapping of Phonation Across the Voice Range
Sten Ternström, PhD

Rehabilitation of the Injured Speaking Voice

Cultivating A Supportive Presence: A Trauma-Informed Approach to Voice Care
Megan Durham, MM, Cert. SVS, RYT-200

Medical

After Covid-19 - Intensive Functional Voice Treatment
R. Eugenia Chavez, MD, PhD
## Workshops Session IV (4:25pm-5:30pm)

### Singing Voice

- **Straws, and Masks, and Cups, Oh My!**  
  *Allen Henderson, DMA*

- **Restoring Balance Post Heavy Voice Load: Vocal Cool Down**  
  *Edrie Means Weekly, MM*

- **The Messa di Voce for Vernacular Styles**  
  *Catherine Pavlik, PhD*

### Acting Voice

- **An Introduction to the Michael Chekhov Acting Technique: A Psychophysical Approach for the Singer-Actor**  
  *Katherine DeFiglio, DMA*

### Body Awareness and Voice

- **Finding the Selftone through Qi Gong and Aikido**  
  *Tais Danielea Leite Vieira, PhD*

- **Introduction to Emotional Freedom Techniques: How Singers Can Use EFT Tapping for Self-Care and Emotional Regulation**  
  *Catherine Pavlik, PhD*

### Musical Theater/Pop/Rock/CCM

- **Safe & Beautiful Belting Technique**  
  *Lisa Popeil, MFA*

- **Using Basic Phonatory Anatomy and Resonance Principles to Understand Gospel**  
  *Jason LeGrain, MS*

- **To Teach or Not to Teach: Strategies to Improve Your Extreme Vocals**  
  *Nicolás Hormazábal*

### Rehabilitation of the Injured Speaking Voice

- **Use of a Vortex Whistle for Measures of Respiratory Capacity and Control: Singing Voice**  
  *Shaheen Awan, PhD, Jordan Awan, MS*
FRIDAY, JUNE 4, 2021

Lecture (6:25pm-9:00pm)

6:00p-9:00p  Professional Voice: The Science and Art of Clinical Care

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NEW YORK SINGING
TEACHERS ASSOCIATION
Educating Voice Professionals Worldwide Since 1906

NYSTA Supports the Voice Foundation
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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.nyst.org.
Medical Session IA (8:00AM—9:30AM)

Chair: Peiyun Zhuang, MD

8:00a  Diagnosis and Analysis of Vocal Fold Movement Disorder Based on Deep Learning
       Peiyun Zhuang, MD

8:10a  Comparing Audio and Throat Accelerometer Signals as a Function of Subglottal Pressure in Different Phonation Types
       Johan Sundberg, PhD

8:20a  Use of Surface Electromyography (SEMG) as a Diagnostic Measure of Muscle Tension Dysphonia: An Evidence-Based Systematic Review
       Feifan Wang, PhD Candidate

8:30a  References Values for the Current Perception Threshold in the Pharynx Based on a Study of a Healthy Population
       Wen Xu, MD

8:40a  Treatment Outcomes of Benign Lesions of Vocal Fold in Children
       Wen Xu, MD

8:50a  Impact of Facial Mask on Auditory-Perceptual and Acoustic Characteristics of Voice and Speech – Preliminary Findings
       Duong Nguyen, MD, PhD

9:00a  H2O2 Concentration in Exhaled Breath Condensate Increases After Phonotrauma: A Promise of Noninvasive Monitoring?
       Marco Guzman, PhD

9:10a  OpenHSV, An Open Platform for Laryngeal High-Speed Videoendoscopy
       Andreas Kist, PhD

9:20a  DISCUSSION
SATURDAY, JUNE 5, 2021

Medical Session IB (8:00AM—9:30AM)

Chair: Ghiath Alnouri, MD

8:00a Are There Differences in the Cranial Base of Humans and Apes?  
*M. S. Benninger, MD*

8:10a Comparative Study of Acoustic Analysis of Tenors and Sopranos Classical and Non-Classical  
*Carlos Manzano, MD*

8:20a Normative Speech Data in Professional Opera Singers  
*Ghaith Alnouri, MD*

8:30a Surgical Outcome of Potassium-Titanyl-Phosphate (KTP) Laser Photocoagulation for Vocal Fold Vascular Lesions  
*Ghaith Alnouri, MD*

8:40a Short-Term Voice Improvement After Repeated Office Based Platelet Rich Plasma Injection in Patients with Scar Sulcus and Atrophy  
*Peak Woo, MD*

8:50a Impact of Stroboscopic Vocal Fold Scar Severity on Pre- and Post-Operative Voice  
*Swetha Vontela, BA*

9:00a Objective Acoustic Analysis and Comparative Analysis of Dynamic Laryngoscopy of Male to Female Transgender Before and After Wendler Glottoplasty  
*Li Gelin, MD*

9:10a The Effect of Marijuana on the Voice: A Pilot Study  
*Bailey Balouch, BS*

9:20a DISCUSSION

9:30a Coffee Break

Panel (10:00AM—11:00AM)

The Art of the Medicine: MD Performers Caring for the Singing Voice

*Moderator: Paul Kwak, MD*  
*Panelists: Tom Carroll, MD, Lesley Childs, MD, Isabel Garcia-Lopez, MD, C. Kwang Sung, MD, David Young, MD*
Brain Mechanisms Underlying Vocal Control

Charles Larson, PhD

Dr. Larson is a professor in the Department of Communication Sciences and Disorders, a position he has held since 1981. In this position, he has taught courses on the Anatomy and Physiology of the Voice Production Mechanism, and in the area of Neurobiology. Dr. Larson’s research has focused on neural mechanisms involved in the control of the laryngeal system, voice and speech.
Meta Therapy: Beyond Vocal Hygiene and Exercise

Moderator: Mara Behlau, PhD

Does Treatment Choice Affect Adherence  
Eva van Leer, PhD

Self-Control, Establishment of Goals and Impulse Control  
AnnaAlice Almeida

Optimizing the Clinician Style to Help the Patient to Adhere to Therapy  
Kriesitan Van Lierde, PhD

The Role of Mindfullness in Voice Therapy  
Mary Sandage, PhD

Roundtable DISCUSSION: Monitor Mara Behlau  
Panelists: van Leer, Almeida, Van Lierde, Sandage

SALUTE TO OUR CHAPTERS

Atlanta, Alabama, Chicago,  
Greater Milwaukee, Houston Area,  
New England, North Carolina,  
North Texas, Northwest/Seattle,  
S. California, Western Wisconsin  
Brazil, China, India,  
Japan, Lebanon, Mexico

Care of the Professional Voice 2021  Page 25
SATURDAY, JUNE 5, 2021

Speech-Language Pathology IIA (2:20PM—4:00PM)

Chair: Marco Guzman

2:20p Evaluation of Voice Ability at Climacterium- (EVA-C)
Filipa M. B. L Lã, PhD

2:30p Is There an Ideal Duration Time to Perform the Latex Tube?
Mariana Ripari Bassetto

2:40p Immediate Effects of a Semi-Occluded Water-Resistance Ventilation Mask on Objective and Subjective Vocal Outcomes in Patients with Dysphonia
Imke Kisse, MSc

2:50p Immediate and Short-Term Effects of Straw Phonation in Air or Water on Vocal Fold Vibration and Supraglottic Activity of Laryngovideostroboscopy
Iris Meerschman, PhD

3:00p Immediate Effects of a Semi-Occluded Water-Resistance Ventilation Mask on Objective and Subjective Vocal Outcomes in Musical Theater Students
Evelien d’Haeseleer, PhD

3:10p A Voice Rehabilitation Protocol with the Semioccluded Ventilation Mask in Subjects with Symptoms of Vocal Fatigue and Phonatory Effort
Carlos Calvache, MSc

3:20p Cognitive Mechanisms in Pediatric Voice Therapy
Hagar Feinstein, SLP

3:30p Expiratory Muscle Strength Training for Treatment of Chronic Cough
Priya Krishna, MD

3:40p Phonation Resistance Training Exercises (PHORTE) With, and Without Expiratory Muscle Strength Training (EMST) For Patients With Presbyphonia: A Non-Inferiority Randomized Clinical Trial
Michael A. Belsky, MD

3:50p DISCUSSION

4:00p Coffee Break Exhibitors, Chats and Videos and Music
Speech-Language Pathology IIB (2:20PM—4:00PM)

Chair: Rosemary Lester-Smith

2:20p  SLP Session IIB  Performance Evaluation of Subharmonic-to-Harmonic Ratio (SHR) Computation  
       Christian Herbst, PhD

2:30p  In-Field Relative Fundamental Frequency via Neck-Surface Vibration in Patients with Vocal Hyperfunction and Vocally Healthy Controls  
       Katherine L. Marks, CCC-SLP, MS

2:40p  Does the Sound Extraction Method Affect Acoustic Measurement Results in PRAAT Program?  
       Marilia Carvalho Sampaio, PhD, SLP

2:50p  Differences and Reliability of Linear and Nonlinear Acoustic Measures as a Function of Vocal Intensity in Individuals with Voice Disorders  
       Vanessa Florêncio, SLP | MS

3:00p  Best Acoustic Measures to Discriminate Subjects with and without Vocal Quality Deviation  
       Leonardo Lopes, PhD, SLP

3:10p  Expiratory Muscle Strength Training for Treatment of Chronic Cough  
       Ka Man Li, BA, MST

3:20p  Characterization and Biomechanical Definition of the Phases of the Glottic Cycle in Voice Pathology Versus Normality Group  
       Isabel Cardoso, MD

3:30p  Description of Voice Production Pattern in Reinke’s Edema Based on Biomechanical Analysis  
       Isabel Cardoso, MD

3:40p  Optimizing Acoustical and Perceptual Assessment of Vocal Tremor for Telepractice  
       Rosemary A. Lester-Smith, PhD

       Orietta Calcinoni, MD

3:50p  DISCUSSION

4:00p  Coffee Break  Exhibitors, Chats and Videos and Music
Speech-Language Pathology IIA continued

Chair: Evelien d’Haeseleer

4:30p Acoustic, Aerodynamic, Morphometric, And Perceptual Changes During and After Semi-Occluded Vocal Tract Exercise: An Integrative Review
Christopher Apfelbach, CCC-SLP

4:40p Tissue Mobilization During Double Source of Vibration Semioccluded Vocal Tract Exercises: A Neck and Face-Surface Acceleration Study
Marco Guzman, PhD

4:50p Clinician and Gender-Expansive Consumer Perspectives on Gender-Affirming Voice Services
Dominic Moog, B.A.

5:00p Identity as a Factor in Voice Disorders and Voice Concerns
Marianna Rubino, CCC-SLP

5:10p The Glottal Gap Phenomenon. A Limitation for Female Vocal Performance?
Kristiane Van Lierde, PhD

5:20p The Role of Vocal Production in Performance of Gender Identities
Samantha Rieches, B.S.

5:30p Voice Change in Transgender Individuals: A Preliminary Study
Afua M. Agyapong, PhD

5:40p Conversation Training Therapy to Target Voice and Communication for Trans Women
Mitchell Peck Eng, B.S.

5:50p Pitch Biofeedback with A Smartphone for Transgender Women: A Pilot Study
Clara Leyns, SLP

6:00p Preferences for Gender-Affirming Voice Modification Clinicians
Desi Gutierrez, B.A.

6:10p Voice Changes in Transmasculine Individuals Following Circumlaryngeal Massage and Laryngeal Reposturing
Kimberly Dahl, CCC-SLP

6:20p DISCUSSION

6:30p DINNER
Chair: Christine Murphy Estes

4:30p  Vocal Loading in Speech Language Therapists Assessing Aerodynamic Parameters – A Comparative Study  
   Usha Manjunatha, CCC-SLP

4:40p  Auditory Skills as a Predictor of Rater Reliability and Accuracy in the Evaluation of Vocal Quality  
   Leonardo Lopes, PhD

4:50p  Objective Assessment of Tonicity of Neck, Facial, Suprahyoid, and Infrahyoid Muscles and Body Posture in Subjects Diagnosed with Voice Disorders and Normal Voices  
   Karol Acevedo, SLP

5:00p  Relationship between the Ability to Perceive Frequency Patterns and the Expressiveness of TV Journalists: Preliminary Study  
   Ingrid Gielow, PhD

5:10p  The Effect of Sound Field Amplification Systems on Vocal Dose in Teachers  
   Baiba Trinite, PhD

5:20p  Vocal Tract Discomfort of University Professors According to Self-Reference of Vocal Symptoms  
   Michelle Ferreira Guimarães, PhD

5:30p  Changes in Vocal Measures in Call Centre Operations during One Working Day  
   Sahana Rajaram, SLP, M.Sc.

5:40p  DISCUSSION

5:50p  Fitness Instruction and Vocal Function: Synthesizing Scientific Literature Across Multiple Disciplines to Inform Clinical Practice  
   Anumitha Venkatraman, CCC-SLP

6:00p  Performers’ Perceptions of Voice Change with Oral Steroid Treatment of Vocal Fold Edema  
   Christine Murphy Estes, MM

6:10p  Socio-Economic Consequences of Voice Disorders, Sleep Problems, and Work-related Stress among College Professors  
   Bibiana Omaira Rute Sanabria, MSc

6:20p  Self-reported Voice Concerns in a Nonclinical Sample of Military Service Members  
   Trevor Thomas Perry, PhD

6:20p  DISCUSSION

6:30p  DINNER
SUNDAY, JUNE 6, 2021

Medical Session IIA (8:00AM—9:50AM)

Chair: Denis Lafreniere, M.D.

8:00 AM  Safe Medical and Therapeutic Evaluation of Voice Patients during the Covid Pandemic
          Denis Lafreniere, M.D.

8:10 AM  Otolaryngology-related Google Search Trends during the Covid-19 Pandemic
          Matthew Pier, B.S., Ghaith Alnouri, M.D.

8:20 AM  Singing during the Pandemic: Impulse Dispersion of Aerosols
          Matthias Echternach, M.D.

8:30 AM  Influence of Loudness and Pitch on Supraglottic Hyperfunction in Female Subjects with Dysphonia and Normal Voice
          Rosario Uribe, SLP

8:40 AM  “Chip of Beauty” and Voice Changes
          Andrea Maria Campagnolo, M.D., Michael Benninger, M.D.

8:50 AM  Laryngopharyngeal Reflux Symptoms, Dysphonia and Vocal Tract Discomfort in Non-Professional (Amateur) Choir Singers
          Carlo Robotti, M.D.

9:00 AM  The Relationship between Chronic Cough and Laryngopharyngeal Reflux
          Gaith Alnouri, M.D.

9:10 AM  The Role of Spectral and Temporal Features in the Intelligibility Advantage of Twang Voice in Noise
          Keiko Ishikawa, Ph.D

9:20 AM  Polypoid Degeneration in Turbinates and Vocal Folds Due to Respiratory Allergies and their Treatment
          R. Eugenia Chavez, MD, PhD

9:40 AM  Q&A  DISCUSSION
Medical Session IIB(8:00AM—9:50PM)

Chair: Mausumi Natalie Syamal, M.D., M.S.

8:00 AM  Vocal Fold Paresis and Voice Outcomes Following Vocal Fold Mass Excision
          Ghiath Alnouri, M.D., RobertnT. Sataloff,  M.D., Samantha Frank, M.D.,

8:10 AM  Influence of Reduced Saliva Production on Phonation in Patients with Ectodermal Dysplasia
          Marion Semmler, Ph.D.

8:20 AM  Laryngeal Aerodynamics Analysis of Spasmodic Dysphonia
          Xinlin Xu, M.D.

8:30 AM  Initial Data on Long-Term Effects of Vibro-Tactile Stimulation in People with Spasmodic Dysphonia
          Divya Bhaskaran, Ph.D., M.Sc.

8:40 AM  Unusual Disease Course of Abductor Spasmodic Dysphonia
          Jared Alexander Sperling, M.S.

8:50 AM  Factors Influencing Pursuit of Botulinum Toxin Injection for Laryngeal Dystonia Patients
          Mausumi Natalie Syamal, M.D., M.S.

9:00 AM  Botox Injection to the Lateral Cricoarytenoid Muscle in a Transgender Woman with Tremor: A Case Study
          Patrick Timothy Kiessling

9:10 AM  Paradoxical Vocal Fold Movement: A Retrospective Analysis
          Ghiath Alnouri, M.D.

9:20 AM  Why Has My Upper Register Disappeared? Prevalence of Voice Problems in Popsingers and Other Semiprofessional Voice Users
          Josef, Schlömicher-Thier, M.D., SLP

9:30 AM  The Effect of Marijuana on the Voice: A Pilot Study
          Ghiath, Alnouri, M.D.

9:40 AM  Q&A   DISCUSSION

9:50 - 10:20AM  Coffee Break
SUNDAY, JUNE 6, 2021

Panel (10:20AM—11:20AM)
The Amateur Choral Singer as Patient

Moderator: Brenda Smith, DMA
Panelists: Karen Brunssen, BM, Linda Carroll, PhD, Allen Henderson, DMA
Robert T. Sataloff, MD

Panel (11:20AM—12:20PM)
From Undergrad to DMA: The Path to Informed Voice Pedagogy

Moderator: Allen Henderson, DMA

11:20a  Introduction
11:05a  Teaching Pedagogy
        Lynn Helding, MM
11:25a  Higher Education Models
        Ian Howell, NEC
11:40a  The Framework
        Allen Henderson, NATS
11:55a  Our Profession in the Real World
        Kari Ragan, DMA
12:20p  Q & A DISCUSSION

VAN L. LAWRENCE FELLOWSHIP

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 contact office@voicefoundation.org

Deadline: November 15
SUNDAY, JUNE 6, 2021

Voice Pedagogy IA (1:20PM—3:10PM)

Chair: Wendy LeBorgne, PhD

       Sarah Katherine Stapleton

1:30p  In-Person or Virtual? – Assessing the Impact of Covid-19 on the
       Teaching Habits of Voice Pedagogues
       Kristen Murdaugh, MM

1:40p  Long-Term Impact of Covid-19 On Singing Teachers
       Wendy LeBorgne, PhD

1:50p  Emotional Safety in The Voice Studio
       Elizabeth Ann Benson, DMA

2:00p  Knowledge, Attitude and Practices of Indian Classical Singers towards
       Vocal Health Care
       Dhanshree Rajesh Gunjawate, PhD

2:10p  The Manifestation of Vocal Fatigue: A Survey of Professional, Female
       Opera Singers and a Single-Subject Study of One Professional Opera
       Singer
       Melissa Treinkman, DMA

2:20p  DISCUSSION

2:30p  How Does Being A Singer Affect the Way We Treat Singers?
       Lance Maron, MD

2:40p  Is There a Measurable Difference in How Pitch Is Perceived from an
       External Source Compared to When We Sing?
       Thomas Joshua Edmonds, MA

2:50p  Characteristics of The Vocal Function Resulting from The Use of a
       Feminized Voice in Trans Women
       Triana Macarena Aguirre, B.M.

3:00p  DISCUSSION

12:20p-1:20p  Lunch Break
   Symposium Planning Committee Meeting
SUNDAY, JUNE 6, 2021

Voice Pedagogy IB (1:20PM—3:10PM)

Chair: Edrie Means Weekly, MM

1:20p  Contemporary Commercial Music (CCM) Survey: Current State of
Who’s Teaching What In Non-Classical Music
   Edrie Means Weekly, MM

1:30p  Health Seeking Behaviors of CCM Performers
   Ana Flavia Zuim, PhD

1:40p  Broadway Baby: A Vibrato or Conscious Wobble?
   Daniel A. Lyng

1:50p  Acoustic and Perceptual Qualities of Music Theater Mix in Four
   Professional Singers
   Brian Michael Manternach, DMA

2:00p  Vocal Habits and Behaviors of Contemporary Christian Music
   Professional Singers In Brazil
   Maria Dos Santos Jaber, MM

2:10p  The Upper Vocal Tract Contribution on The Auditory Perception of
   Twang
   Marcelo Saldias O’Hrens, SLP

2:20p  Vocal Health of Choral Singers from Kenya And the United States:
   Dysphonia and Vocal Fatigue in Relation to Musical Genres
   Morgan Jolley, PhD

2:30p  The Influence of Vowels On A Cappella Choral Tuning
   David Howard, PhD

2:40p  Measuring “Lock and Ring” In Barbershop Singing
   Peter James Cookson, PhD

2:50p  The Singing Voice Specialist: An Essential Bridge Between Two Worlds
   Rebecca Holbrook Loar, DMA

3:00p  DISCUSSION
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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>3:10p</td>
<td>Exogenous Testosterone and The Transgender Singing Voice</td>
<td>Ari Agha, PhD</td>
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<tr>
<td>3:20p</td>
<td>Fundamentally Speaking (And Singing): A Longitudinal Single-Case Study of a Professional Transmasculine Singer During Hormone Replacement Therapy</td>
<td>Felix A. Graham, PhD</td>
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<tr>
<td>3:30p</td>
<td>Acoustic and Airflow Vibrato in Diatonic Scales: A Pilot Study</td>
<td>Sri Nandamudi, PhD</td>
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<td>3:40p</td>
<td>Extreme Vocal Effects as Measured by Acoustics and Egg - An Investigation of Distortion, Growl, Grunt, And Rattle</td>
<td>Mathias Aaen, PhD</td>
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<td>3:50p</td>
<td>Supraglottal Pressure Modeling in Excised Canine Larynges</td>
<td>Nikita Menon</td>
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<td>4:00p</td>
<td>Sung Vowel Clarity with Respect to Pitch Distribution in Recitative and Aria</td>
<td>David Howard, PhD</td>
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<td>4:10p</td>
<td>Effects of Historical Wax Cylinder Recording Technology on Spectral Measurements of Treble Operatic Singer Chest Voice</td>
<td>Joshua D. Glasner, PhD</td>
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<td>4:20p</td>
<td>Comparison of The Effects of The Nares and Nasal Cavity on Voice Quality Versus Vocal Tract Adjustments</td>
<td>Aramat Arnheim-Sharon,</td>
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<td>4:40p</td>
<td>Resonant Voice: Perceptual and Acoustic Analysis After Lessac’s Kinesensic Training</td>
<td>Marilene Grama, SLP</td>
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<td>4:50p</td>
<td>Interpretative Map: A Pedagogical Tool to Enhance Vocal Interpretive Ability In Acting Students</td>
<td>Gala Fernandez, M.A.</td>
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<td>5:00p</td>
<td>The Physiological Correlates of Multiple Different Sound Colours Across Multiple Phonation Types as An Alternative To ‘A Timbre’</td>
<td>Mathias Aaen, PhD</td>
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<td>5:10p</td>
<td>DISCUSSION</td>
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<td>5:20p</td>
<td>Concluding Remarks</td>
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<td>5:30p</td>
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Voice Pedagogy IB (3:10PM—5:30PM)

Chair: Rachelle Fleming, DMA

3:10p  Singing and Persons with Physical Disabilities: A Survey of Singing Teacher Attitudes, Knowledge and Experience
       Julieta Garcia Reyes, MM

3:20p  Pedagogical Education of The Current Voice Teacher Population
       Rachelle Fleming, DMA

3:30p  The Impact of Inspiratory Muscle Training and Breathing Exercises on the Inspiratory Muscle Strength, Maximum Phonation Time and Range of Singers and Non-Singers
       Rachel B. Goldenberg, DMA

3:40p  Speak Like You Sing: Integrating Classical Techniques from Theatre and Music in Spoken Dialogue for Opera
       Joan Melton, PhD

3:50p  The Influence of Voice Training on Vocal Learner’s Objective Acoustic Voice Components
       Peiyun Zhuang, MD

4:00p  Singing at Menopause: A Systematic Review
       Edrie Means Weekly, MM, Elizabeth Bemis, Marquita Lister, MM

4:10p  Teacher Attitudes on Vibrato Use in Early Vocal Music
       Margaret Wolfe, MM

4:20p  The Effect of Formant Tuning on Intonation Perception
       Amanda Chmela, MM, Melanie Vaughan, BM, Jeannette L. LoVetri

4:30p  The Key to Singing Off-Key: The Amplified Singer and Pitch Perception Distortion
       Diane Hughes, PhD

4:40p  Quantitative Analysis of The G. Schirmer Opera Anthologies Edited by Robert Larsen
       James D. Rodriguez, DMA

4:50p  Synthesizing Schubert: Quantitative Analysis of Die Schöne Müllerin
       Paul Patinka, MM

5:00p  Putting the Human Touch in Your AI Voice
       Allison Smith, BFA

5:10p  DISCUSSION

5:20p  Concluding Remarks

5:30p  Adjourn
Dear Voice Foundation Friends and Family:

Thank You

Stay Safe

Stay Healthy

We want to see you

IN PERSON JUNE 1 - 5, 2022

The Philadelphia Westin

for the 51st Annual Symposium:

CARE OF THE PROFESSIONAL VOICE