Please be aware that we are not publishing a daily addendum and there may be changes in the program. Thank you!

Broadening the Circle

*Everything starts at a higher knowledge level at each meeting.*

~ RT Sataloff, MD, DMA  Broadening the Circle

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

Accreditation
This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the 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 live activity for a maximum of 30 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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.

**Ineligible Company:** The ACCME defines an “ineligible company” as any entity producing, marketing, re-selling, or distributing health care goods or services used on or consumed by patients. Providers of clinical services directly to patients are NOT included in this definition.

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**Commercial Promotion Acknowledgement**
The Voice Foundation wishes to recognize and thank the following companies for their commercial promotion towards this educational activity.
ASHA CONTINUING EDUCATION UNITS

DISCLOSURE INFORMATION: For the complete disclosure of all relevant financial and non-financial relationships. Please Click Here http://voicefoundation.org/annual-symposium1/faculty-disclosures-2021/

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.

Temple University is approved by the Continuing Education Board of the American Speech-Language-Hearing Association (ASHA) to provide continuing education activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

This course is offered for up to 04.60 ASHA CEUs (Various levels, Professional Area)

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.

LEARNING 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. Unique Session Learning Objectives Click Here

CONFERENCE TAKEAWAY
The 50th Anniversary conference of The Voice Foundation consists of lectures, discussions, and workshops which presents physicians, researchers, speech-language pathologists, and voice trainers with cutting edge information related to evaluation and treatment of the professional voice and its disorders, including recent technological, scientific, and clinical advances in the study of the human voice.

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

Program Committees

Scientific Program
Charles Larson, Ronald C. Scherer
Nancy P. Solomon, Johan Sundberg

Medical Program
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Speech-Language Pathology
Mary (Molly) Erickson,
Thomas Murry, Robert T. Sataloff

Voice Pedagogy
David Meyer, Scott McCoy
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Panels
Michael M. Johns,
Young Laryngologists

Young Laryngologists
Thomas L. Carroll, chair
Jayme Dowdall
Joel Portnoy, David Rosow
Amy Rutt

Award Committees

New Investigators Research Forum
Mary (Molly) Erickson, Chair
Mara Behlau
Christian Herbst
Shigeru Hirano
David Meyer

Quintana Voice Research Award
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Sataloff Award for Young Investigators
Norman Hogikyan, Chair
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Denis LaFreniere
David E. Rosow
Kristiane van Lierde

Van L. Lawrence Fellowship Award
Robert T. Sataloff, Chair
Margaret Baroody
Carole Blankenship
Brian Gill
Adam Rubin
Josef Schломичер-Thier
Welcome to the Joint Meeting CoMeT and The Voice Foundation

(CoMeT Sessions: This part of the program is not available for CMEs)

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

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

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

8:40a Are Voice Clinicians Interested in Functional Relationships?
   Sten Ternström, Ph.D.

8:55-9:10a DISCUSSION LIVE

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

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

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

9:55-10:10a DISCUSSION LIVE

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

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

10:40a Astaxanthin As Treatment of Glottal Dysplasia in A Vocal Professional: Potential Adjuvant Therapy?
   Lucinda Halstead, M.D.
Wednesday June 2, 2021

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

11:10-12:15  Coffee Break

11:15a  Respiratory Allergies and Food Intake in Artists During Pandemic
        R. Eugenia Chávez, M.D., Ph.D.

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

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

12:00-12:15  DISCUSSION LIVE

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

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

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

1:00pm - 2:00pm  Lunch
        Chapters Meeting

Provenance

Much of what happens in history, I think, is due to the devoted and inspired contribution of single people.

~ J Sundberg, PhD  Broadening the Circle

200p  Welcome
        Robert T. Sataloff, M.D., Chairman, The Voice Foundation

2:15p  Anatomy and Physiology of Phonation: An Overview
        Robert T. Sataloff, M.D., FACS

3:00p  Production and Perception of Voice: An Overview
        NEURO – Charles Larson, Ph.D.
        RESPIRATION – Johan Sundberg, Ph.D.

4:00p  Coffee Break

4:30p  Production and Perception of Voice: An Overview (cont.)
        PHONATION – Ronald S. Scherer, Ph.D.
        RESPIRATION – Johan Sundberg, Ph.D.
        VOCAL TRACT – Sten Ternström, Ph.D.
        PERCEPTION – David Eddins, Ph.D.
        VOICE PEDAGOGY – William Riley, M.M.

6:30p-7:00p  LIVE Question and Answer LIVE

7:00p  Adjourn

Care of the Professional Voice 2021  Page 4
Session I: Phonatory Modeling – Phonation Mechanics and Measures
Chair: Charles Larson, Ph.D.

8:00a  Control of The Pre-Phonatory Vocal Fold Posture in The Larynx Model Synthvoice
Stefan Kniesburges, Ph.D., Reinhard Veltrup, M.S., Matthias Echter-nach, M.D., Michael Döllinger, Ph.D., Anne Schützenberger, MD

8:12a  Computational Neuromuscular Control of Intrinsic Laryngeal Muscles for Voice Production
Anil Palaparthi, M.S., Rishi Alluri, Ph.D., Ingo Titze, Ph.D.

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

8:36a  3d-Printed Synthetic Vocal Fold Models
Scott L. Thomson Ph.D., Ryan G.T. Romero, M.S.

8:48a-  Panel DISCUSSION  Moderator: Charles Larson, Ph.D. LIVE
9:00a  Medical Panelist:
Panel: Kniesburges, Palaparthi, Sugiyama, Thomson

Quintana Research Award Lecture  9:00am—9:30am
Chair: Robert T. Sataloff Ph.D.

The Modeling of Vocal Fold Vibration for A Few Clinically-Related Conditions
Jack Jiang, M.D., Ph.D.

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 of 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.

9:30a  Coffee Break

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

*Phonation Mechanics and Measures*
*Chair: Johan Sundberg, Ph.D.*

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

10:12a  Systematic Analysis of Phonation Modes in Singing Voice Using Glottal Source Features  
*Sudarsana Reddy Kadiri, Ph.D., Johan Sundberg, Ph.D., Paavo Alku, Ph.D.*

10:24a  Post-Surgery Changes in Vocal Fold Closing Velocity in Patients with Mass Lesions  
*Hamzeh Ghasemzadeh, Ph.D., Dimitar D. Deliyski, Ph.D., Robert Hillman, M.D., Daryush D. Mehta, Ph.D.*  
*Katherine Abbott Verdolini, 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, Ph.D., Nicole Heinz, Corinne A. Brown, B.S., Farrah Levesque, High-School Student,*  
*Stephanie RC Zacharias, Ph.D., Dimitar D. Deliyski, Ph.D.,*

10:48a  Closure of The Posterior Glottis during Singing: True or Not?  
*Claudio Storck, M.D., Jan Thommen, M.D., Florent Heritier,*  
*Fabian Unteregger, M.D., Flurin Honegger, Ph.D.*

11:00a-  Panel DISCUSSION: Moderator Johan Sundberg, Ph.D.  
*LIVE*

11:30a  Panel: Kniesburges, Palaparthi, Sugiyama, Thomson

11:30p  Lunch Break

*Meeting of Journal of Voice Editorial Board LIVE ZOOM*  
*Chair: Robert T. Sataloff (11:30 - 12:30p)*
**THURSDAY, JUNE 3, 2021**

**Keynote Speech 1:00pm—2:00pm**

**On Vocal Loudness - Ingo Titze, Ph.D.**

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. His 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 (Ph.D.).

Dr. Titze is a founding member and first elected President of the Pan-American Vocology Association. He has administered and taught in the SuM.M.er 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, Ph.D.**

2:00p  External Validity of Calibrated Measurements from A Laser-Projection Transnasal Fiberoptic High-Speed Videoendoscopy System

*Hamzeh Ghasemzadeh, Ph.D.*

2:12p  Automated Glottis Obstruction Detection in High-Speed Videoendoscopy During Connected Speech for Patients with Adductor Spasmodic Dysphonia

*Ahmed M. Yousef, M.Sc.*

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**Breath -- There Be Dragons**

An important enduring mystery that cries out for resolution is the rules, if you will, of ventilatory control.

~ RJ Baken, PhD  Broadening the Circle
Thursday, June 3, 2021

2:24p  Effects of Covarying Breathiness and Roughness on Dysphonia Severity in Natural Voices  
Supraja Anand, Ph.D.,

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, Ph.D.,

Christian T. Herbst, Ph.D.,

3:00p-  Panel DISCUSSION: Ronald C. Scherer, Ph.D.  
Medical Panelist:  
Panel: Ghasemzadeh, Yousef, Anand, Svec, Herbst

3:30p  Medical Panelist:  
Panel: Ghasemzadeh, Yousef, Anand, Svec, Herbst

Ripple Effect

Almost anything in voice,  
if you scratch the surface hard enough and deep enough  
~ J Rubin, MD  Broadening the Circle

Poster Session  (3:30pm - 5:00pm)

Chair: Ronald C. Scherer, Ph.D.

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.
THURSDAY, JUNE 3, 2021

Poster Session  3:30pm - 5:00pm

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 by 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  
Keiko 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 CoM.M.unity  
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
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, MClinRes_

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

Evaluation of Graduate and Undergraduate Students’ Ability to Detect Pathological Qualities and Assign Severity Ratings Using The GRBAS Scale  
_Anna Charlotte White, SLP, MClinRes_

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 Cankeration  
_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._

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

Incidence of Lemg Findings for Vocal Fold Paresis in Voice Patients Who Play Wind Instruments, Either Past or Present  
_Valerie Trollinger, DME, Ghaith Alnouri, M.D._
Fiberoptics—Getting Behind the Curtain

Looking at the throat through the nose, with Gould’s fiberoptic laryngoscope, was novel as you could look at the performer’s throat without holding their tongue. That was a very big idea.

~ P Woo, MD  Broadening the Circle

Special Session (6:00pm - 7:30pm)

Singing - 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, Ph.D.

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

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

6:45p- 7:00p Panel DISCUSSION: Moderator Johan Sundberg LIVE ZOOM
       Medical Panelist:
       Panel: Bernardoni, Watson, Lester-Smith

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, Ph.D.

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, Ph.D., Renee L. Gustin, CCC-SLP

8:00p Intelligibility in Auralized Classrooms: The Effect of Dysphonia  
Pasquale Bottoliccio, Ph.D.

8:10p Effect of Dysphonic Speech on Intelligibility in Primary Classrooms  
Pasquale Bottoliccio, Ph.D.

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

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

8:40p DISCUSSION LIVE ZOOM

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, Ph.D.

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 - 9:50p DISCUSSION LIVE ZOOM

Adjourn
THURSDAY, JUNE 3, 2021

Speech-Language Pathology IB (7:30PM—10:00PM)

Chair: Nandhu Radhakrishnan, Ph.D.

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

7:40p  Exploring Novel Constructs of CoM.M unicative Congruence and Dyspho ria in The General Population  
       Brett Welch, CCC-SLP

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

8:00p  Comparison of Two Voice Therapy Models  
       Elizabeth Grillo, Ph.D.

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

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  
       Ümit Daşdöğen, PostDip., MS. CF-SLP

8:40p  DISCUSSION  LIVE ZOOM

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

9:00p  Age and Gender Differences in Dutch Intonation  
       Evelien D’Haeseleer, Ph.D.

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

9:20p  Impaired Pitch Matching in A Professional Singer After Cochlear Implant: A Case Study  
       Leda Scearce, CCC-SLP

9:30p  Gamification of Vocal Hygiene and Preventing Phonotrauma: Focusing on Hydration: A Qualitative Study  
       Julie Herrig, BA

9:40p - 9:50p  DISCUSSION  LIVE ZOOM

Adjourn
FRIDAY, JUNE 4, 2021

The Art of Laryngology~

In medicine you have to remember the milk of human kindness, and how important humanism is in medicine. How important the holistic care of patients is.

~ F Brodnitz, MD  Broadening the Circle

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

Personality and the Voice

Moderator: Nancy P. Solomon, Ph.D.

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

8:10a  Models and Measures of Personality for Predicting Performance
       Chris Patrick, Ph.D.

8:40a  What’s Personality Got To Do with Voice Disorders?
       Uncovering Neurobiological Mechanisms
       Miriam van Mersbergen, Ph.D.

9:00a  Just Relax!? Negotiating Stress for Vocal Well-Being
       Maria Dietrich, Ph.D.

9:30a  Coffee Break

10:00a Personality in Children with Vocal Nodules: Why It Matters
       Nelson Roy, Ph.D.

10:30a Both Speakers and Listeners Bring Personality to the
       Communication Table
       Leah Helou, Ph.D.

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

12:00p  Lunch (on your own)

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

1:00pm - 2:00pm Voice Foundation Board of Directors Meeting LIVE ZOOM
       Chair: Robert T. Sataloff, M.D.
Singing Voice

Inspiratory Muscle Training for the Voice Studio
Rachel B. Goldenberg, D.M.A., Jessica DeMars, BSc

SOVTraining: a Multidisciplinary Approach to Vocal Tract Semi-Occlusion for Voice Training
Claudio Fabro, M.M., Vittoria Carlino, SLP, Marco Fantini, M.D.

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

Musical Theater/Pop/Rock/CCM

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

Young Voices

The Estill Adventure for Children: Figures for Beginners!
Kimberly Steinhauer, Ph.D., Mary McDonald Klimek, CCC-SLP

Acting Voice

Acacia Danielson

Voice and Movement

The Empowering Role of Movement in Voice Pedagogy
Joan Melton, Ph.D.

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, Ph.D., Aaron Ziegler, Ph.D.

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, Ph.D.

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, M.M.

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, D.M.A.

Young Voices

Correction of Children’s Vocal Production Problems
Andrea Asztalos, Ph.D.

Rehabilitation of the Injured Speaking Voice

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

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 Voices for Vernacular Styles
Norman Spivey, D.M.A., Mary Saunders-Barton, MA

The Tone Deaf Singer
William Riley, M.M.

Transgender Voice

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, Ph.D.

Voice Science/Technology

Real-Time Mapping of Phonation Across the Voice Range
Sten Ternström, Ph.D.

Rehabilitation of the Injured Speaking Voice

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

Medical

After Covid-19 - Intensive Functional Voice Treatment
R. Eugenia Chavez, M.D., Ph.D.
FRIDAY, JUNE 4, 2021

Workshops Session IV (4:25pm-5:30pm)

Singing Voice

Restoring Balance Post Heavy Voice Load: Vocal Cool Down  
*Edrie Means Weekly, M.M.*

The Messa di Voce for Vernacular Styles  
*Catherine Pavlik, Ph.D.*

Acting Voice

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

Body Awareness and Voice

Finding the Selftone through Qi Gong and Aikido  
*Tais Vieira, Ph.D.*

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

Musical Theater/Pop/Rock/CCM

Safe & Beautiful Belting Technique  
*Lisa Popeil, MFA*

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

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

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

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

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

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

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NEW YORK SINGING TEACHERS ASSOCIATION
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**SATURDAY, JUNE 5, 2021**

**Medical Session IA (8:00AM—9:30AM)**

**Chair: Thomas Carroll, M.D.**

8:00a  Diagnosis and Analysis of Vocal Fold Movement Disorder Based on Deep Learning  
*Peiyun Zhuang, M.D.*

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

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

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

8:40a  Treatment Outcomes of Benign Lesions of Vocal Fold in Children  
*Wen Xu, M.D.*

8:50a  Impact of Facial Mask on Auditory-Perceptual and Acoustic Characteristics of Voice and Speech – Preliminary Findings  
*Duong Nguyen, M.D., Ph.D.*

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

9:20a  DISCUSSION **LIVE ZOOM**

“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.”

Buy *Broadening the Circle* at  
The Voice Foundation Online Store
Medical Session IB (8:00AM—9:30AM)

Chair: Ghiath Alnouri, M.D.

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

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

8:20a  (MOVED TO SESSION IA) Normative Speech Data in Professional Opera
      Singers
      *Ghaith Alnouri, M.D.*

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

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

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

9:00a  The Effect of Marijuana on the Voice: A Pilot Study
      *Bailey Balouch, BS*

9:10a - 9:30a  DISCUSSION *LIVE ZOOM*

9:30a  Coffee Break

*LIVE ZOOM* Panel (10:00AM—11:00AM) *LIVE ZOOM*

The Art of the Medicine:
M.D. Performers Caring for the Singing Voice

Moderator: Paul Kwak, M.D.
Panelists: Tom Carroll, M.D., Lesley Childs, M.D., Isabel Garcia-Lopez, M.D.,
C. Kwang Sung, M.D., David Young, M.D.
SATURDAY, JUNE 5, 2021

Award Announcements (11:00AM—11:15AM)

Chair: Robert Thayer Sataloff, M.D., FACS

30th Van Lawrence Fellowship Award
JOV Best Paper Awards
13th Annual Sataloff Young Investigators Award
21st Annual David W. Brewer Award for Best Poster
15th Annual Journal of Voice Best Paper Awards
10th Annual Hamdan International Presentation Award
7th Annual Best Student Presentation Award
3rd Annual Spasmodic Dysphonia Research Award

G. Paul Moore Lecture (11:15AM—12:15PM)

Brain Mechanisms Underlying Vocal Control

Charles Larson, Ph.D.

Dr. Larson is a professor in the Department of Communication Sciences and Disorders at Northwestern University, 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.

12:15p Lunch Break (on your own)

Presentation Outreach Committee Meeting LIVE ZOOM
Voice Lab Representatives Meeting LIVE ZOOM
Chair: Sten Ternström
SATURDAY, JUNE 5, 2021

Panel (1:15PM—2:20PM)

Meta Therapy: Beyond Vocal Hygiene and Exercise

Moderator: Mara Behlau, Ph.D.

- Does Treatment Choice Affect Adherence
  Eva van Leer, Ph.D.

- Self-Control, Establishment of Goals and Impulse Control
  Anna Alice Almeida, Ph.D.

- Optimizing the Clinician Style to Help the Patient to Adhere to Therapy
  Kristiane Van Lierde, Ph.D.

- The Role of Mindfulness in Voice Therapy
  Mary Sandage, Ph.D.

2:08p - 2:20p LIVE ZOOM 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
SATURDAY, JUNE 5, 2021

Seeing Sound

We may be sorry that we didn’t keep the original analog signals, because they contain more information and different information than we have in the digitized acoustical signal.

~ RT Sataloff, MD, DMA  Broadening the Circle

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, Ph.D.

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 Kissel, M.Sc.

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, Ph.D.

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, Ph.D.

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

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

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

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, M.D.

3:50p  DISCUSSION LIVE ZOOM

4:00p  Coffee Break  Exhibitors, Chats and Videos and Music

Page 26  Care of the Professional Voice 2021
Early Days

As long as you don’t know the facts, then you could replace arguments with emotions.
~ J. Sundberg, PhD Broadening the Circle

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, Ph.D.

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, Ph.D., 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, Ph.D., 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, M.D.

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

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

   Orietta Calcinoni, M.D.

3:50p DISCUSSION LIVE ZOOM

4:00p Coffee Break Exhibitors, Chats and Videos and Music
Saturday, June 5, 2021

Educating Each Other

The primary aspect of the Symposium that has changed over the many years is that the education and the knowledge base of all the attendees is so much broader and deeper now.

~RC Scherer, PhD     Broadening the Circle

Speech-Language Pathology IIA (4:30PM-6:30PM)

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, Ph.D.

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, Ph.D.

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, Ph.D.

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 LIVE ZOOM

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, Ph.D.

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, Ph.D.

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

5:20p Vocal Tract Discomfort of University Professors According to Self-Reference of Vocal Symptoms  
  Michelle Ferriera Guimarães, Ph.D.

5:30p Fitness Instruction and Vocal Function: Synthesizing Scientific Literature Across Multiple Disciplines to Inform Clinical Practice  
  Anumitha Venkatraman, CCC-SLP

5:40p Performers’ Perceptions of Voice Change with Oral Steroid Treatment of Vocal Fold Edema  
  Christine Murphy Estes, M.M.

5:50p Socio-Economic Consequences of Voice Disorders, Sleep Problems, and Work-related Stress among College Professors  
  Bibiana Omaira Rute Sanabria, M.Sc., Lady Catherine Cantor Cutiva, PhD

6:00p Self-reported Voice Concerns in a Nonclinical Sample of Military Service Members  
  Trevor Thomas Perry, Ph.D.

6:10p- 6:30p DISCUSSION LIVE ZOOM

6:30p DINNER

8:00p West Coast Happy Hour Social (All are welcome!)
**SUNDAY, JUNE 6, 2021**

**A Surgical Specialty**

*Dr. Hirano’s research on the layered structure of the vocal fold was revolutionary as well as Dr. Gray’s basement membrane research. That was really groundbreaking...the laryngeal and phonosurgeries have changed based on a lot of the research from our scientists.*

~ M Hawkshaw, RN, CORLN  Broadening the Circle

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**Medical Session IIA (8:00AM—9:40AM)**

**Chair:** Denis Lafreniere, M.D.

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

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

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

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

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

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

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

9:10a  The Role of Spectral and Temporal Features in the Intelligibility Advantage of Twang Voice in Noise  
*Keiko Ishikawa, Ph.D., CCC-SLP, M.M.*

9:20a  Polypoid Degeneration in Turbinates and Vocal Folds Due to Respiratory Allergies and their Treatment  
*R. Eugenia Chavez, M.D., Ph.D.*

9:30a-9:40a  Q&A  DISCUSSION *LIVE ZOOM*
Medical Session IIB (8:00 AM—9:40 PM)

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., Robert T. 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 - 9:40 AM Q&A DISCUSSION LIVE ZOOM

9:40 - 10:10 AM Coffee Break
**Sunday, June 6, 2021**

Panel (10:10AM—11:20AM)

**The Amateur Choral Singer as Patient**

Moderator: Brenda Smith, D.M.A.  

11:10a - 11:20a  Q&A DISCUSSION *LIVE ZOOM*

Panel (11:20AM—12:30PM)

**From Undergrad to D.M.A.: The Path to Informed Voice Pedagogy**

Moderator: Allen Henderson, D.M.A.

- Introduction
- Framing the Conversation around Voice Pedagogy  
  *Lynn Helding, M.M.*
- The Knowledge Explosion and its Impacts  
- Voice Pedagogy in the Real World  
  *Allen Henderson, D.M.A., NATS*
- Teaching Pedagogy Moving Forward  
  *Amelia Rollings Bigler, Ph.D.*

12:20 - 12:30p  Q & A DISCUSSION *LIVE ZOOM*

**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

Greater Resolution and Precision

I would say that the science of voice has moved forward
because of greater resolution in time, greater resolution in space
(whether that space is outside the tissue or inside the tissue),
and greater precision in surgical procedures.
Those are great advancements, plus the improved training
of practitioners in the various disciplines of voice.
~RC Scherer, PhD     Broadening the Circle

12:30p-1:30p       Lunch Break
Symposium Planning Committee Meeting LIVE ZOOM

Voice Pedagogy IA (1:30PM—3:10PM)

Chair: Wendy LeBorgne, Ph.D.

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

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

1:50p    Emotional Safety in The Voice Studio
         Elizabeth Ann Benson, D.M.A.

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

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, D.M.A.

         Sarah Katherine Stapleton

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

2:40p    The Physiological Correlates of Multiple Different Sound Colours Across
         Multiple Phonation Types as An Alternative To ‘A Timbre’
         Mathias Aaen, Ph.D.

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-3:10p DISCUSSION LIVE ZOOM
SUNDAY, JUNE 6, 2021

Balance of Culture and Science

There were very heated discussions between the Ph.D. doctors and the M.D. doctors. There were all kinds of arguments about everything, and sometimes it was like a tennis match watching the arguments! There was a lot of discord between the scientists and the singing teachers.

...Sometimes the fur would fly at the symposium. but gradually, as the younger singing teachers came in, some of that argument diminished.

~J. LoVetri   Broadening the Circle

Voice Pedagogy IB (1:20PM—3:10PM)

Chair: Edrie Means Weekly, M.M.

   Edrie Means Weekly, M.M.

1:30p Health Seeking Behaviors of CCM Performers
   Ana Flavia Zuim, Ph.D.

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, D.M.A.

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

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, Ph.D.

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

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

2:50p The Singing Voice Specialist: An Essential Bridge Between Two Worlds
   Rebecca Holbrook Loar, D.M.A.

3:00p DISCUSSION LIVE ZOOM
Voice Pedagogy IA (3:10PM—5:30PM)

Chair: David Meyer, D.M.

3:10p Exogenous Testosterone and The Transgender Singing Voice
   Ari Agha, Ph.D.

3:20p Fundamentally Speaking (And Singing): A Longitudinal Single-Case
      Study of a Professional Transmasculine Singer During Hormone
      Replacement Therapy
      Felix A. Graham, Ph.D.

3:30p Acoustic and Airflow Vibrato in Diatonic Scales: A Pilot Study
      Sri Nandamudi, Ph.D.

3:40p Extreme Vocal Effects as Measured by Acoustics and Egg -
      An Investigation of Distortion, Growl, Grunt, And Rattle
      Mathias Aaen, Ph.D.

3:50p Supraglottal Pressure Modeling in Excised Canine Larynges
      Nikita Menon, B.S.

4:00p Sung Vowel Clarity with Respect to Pitch Distribution in Recitative and
      Aria
      David Howard, Ph.D.

4:10p Effects of Historical Wax Cylinder Recording Technology on Spectral
      Measurements of Treble Operatic Singer Chest Voice
      Joshua D. Glasner, Ph.D.

4:20p Comparison of The Effects of The Nares and Nasal Cavity on Voice
      Quality Versus Vocal Tract Adjustments
      Aramat Arnheim-Sharon

4:30p Effects of Provoz Training in The CoM.M unicative Skills of Young
      People
      Maria Lucia Graziano Magalhães, M.Sc.

4:40p Resonant Voice: Perceptual and Acoustic Analysis After Lessac’s
      Kinesensic Training
      Marilene Grama, SLP

4:50p Interpretative Map: A Pedagogical Tool to Enhance Vocal Interpretive
      Ability In Acting Students
      Gala Fernandez, M.A.

5:00p DISCUSSION LIVE ZOOM

5:10p Adjourn

6:00pm - 7:30pm NATS Voice Science Advisory Committee Meeting
<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:10p</td>
<td>Singing and Persons with Physical Disabilities: A Survey of Singing Teacher Attitudes, Knowledge and Experience</td>
<td>Julieta Garcia Reyes, M.M.</td>
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<tr>
<td>3:30p</td>
<td>The Impact of Inspiratory Muscle Training and Breathing Exercises on the Inspiratory Muscle Strength, Maximum Phonation Time and Range of Singers and Non-Singers</td>
<td>Rachel B. Goldenberg, D.M.A.</td>
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<tr>
<td>3:40p</td>
<td>Speak Like You Sing: Integrating Classical Techniques from Theatre and Music in Spoken Dialogue for Opera</td>
<td>Joan Melton, Ph.D.</td>
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<td>3:50p</td>
<td>The Influence of Voice Training on Vocal Learner’s Objective Acoustic Voice Components</td>
<td>Peiyun Zhuang, M.D.</td>
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<tr>
<td>4:00p</td>
<td>Singing at Menopause: A Systematic Review</td>
<td>Mauro Barro Fiuza, M.S.</td>
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<tr>
<td>4:10p</td>
<td>Teacher Attitudes on Vibrato Use in Early Vocal Music</td>
<td>Margaret Wolfe, M.M.</td>
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<tr>
<td>4:20p</td>
<td>The Effect of Formant Tuning on Intonation Perception</td>
<td>Daniel Andrew Lying, M.M.</td>
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<tr>
<td>4:30p</td>
<td>The Key to Singing Off-Key: The Amplified Singer and Pitch Perception Distortion</td>
<td>Sarah Kervin, M.M., M.S.</td>
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<tr>
<td>4:40p</td>
<td>Quantitative Analysis of The G. Schirmer Opera Anthologies Edited by Robert Larsen</td>
<td>James D. Rodriguez, D.M.A.</td>
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<tr>
<td>4:50p</td>
<td>Synthesizing Schubert: Quantitative Analysis of Die Schöne Müllerin</td>
<td>Paul Patinka, M.M.</td>
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<tr>
<td>5:00p</td>
<td>Putting the Human Touch in Your AI Voice</td>
<td>Allison Smith, B.F.A.</td>
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<tr>
<td>5:10p</td>
<td>DISCUSSION <strong>LIVE ZOOM</strong></td>
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<tr>
<td>5:20p</td>
<td>Adjourn</td>
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<tr>
<td>6:00pm-7:30pm</td>
<td>NATS Voice Science Advisory Committee Meeting</td>
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</tbody>
</table>
Meetings

**Wednesday, June 2**
- Quintana Award Committee 12:00 PM - 1:00 PM
- Voice Foundation Local Chapters 1:00 PM - 2:00 PM

**Thursday, June 3**
- Quintana Award Committee
- Journal of Voice Editorial Board 11:30 - 12:30 PM

**Friday, June 4**
- TVF Advisory Board 12:00 PM - 1:00 PM
- TVF Board of Directors 1:00 PM - 2:00 PM

**Saturday, June 5**
- Voice Laboratory Representatives 12:15 -1:15pm
- Presentation Outreach Committee 12:15pm -1:15pm

**Sunday, June 6**
- Symposium Planning Committee 12:30pm -1:30pm
- NATS Voice Science Advisory 6:00pm - 7:30pm

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**CONGRATULATIONS**

The Editorial Board of the Journal of Voice is proud to announce the 2020 Best Paper Awards
Access to these articles is gratis for the next six months at jvoice.org

**Basic Science**

*Visual and Automatic Evaluation of Vocal Fold Mucosal Waves Through Sharpness of Lateral Peaks in High-Speed Videokymographic Images*

S. Pravin Kumar, Ketaki Vasant Phadke, Jitka Vydrová, Adam Novozámský, Aleš Zita, Barbara Zitová, Jan G. Švec
Vol. 34, Issue 2, p170–178

**Clinical Medicine**

*Efficacy of Videostroboscopy and High-Speed Videendoscopy to Obtain Functional Outcomes From Perioperative Ratings in Patients With Vocal Fold Mass Lesions*

Maria E. Powell, Dimitar D. Deliyski, Steven M. Zeitels, James A. Burns, Robert E. Hillman, Terri Treman Gerlach, Daryush D. Mehta
Vol. 34, Issue 5, p769–782

**SLP/Vocal Ped**

*Voice Therapy Outcome—A Randomized Clinical Trial Comparing Individual Voice Therapy, Therapy in Group, and Controls Without Therapy*

Ann-Christine Ohlsson, Hans Dotevall, Inger Gustavsson, Kerstin Hofling, Ulrika Wahle, Claes Österlind
Vol. 34, Issue 2, p303.e17–303.e26
Full-Text HTMLPDFSupplemental Materials

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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

Balance of Culture and Science

Voice is the one door that takes you to the arts and takes you to medicine. I went to voice because it was the one possibility of making me balance culture and science.

~ M. Behlau, PhD  Broadening the Circle