2021 Joint Meeting
VIRTUAL EDITION

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, Temple University, The American Institute for Voice and Ear Research, and the Academy of Vocal Arts.
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.

Financial Relationships: Relationships in which the individual benefits by receiving a salary, royalty, intellectual property rights, consulting fee, honoraria, ownership interest (e.g., stocks, stock options or other ownership interest, excluding diversified mutual funds), or other financial benefit. Financial benefits are usually associated with roles such as employment, management position, independent contractor (including contracted research), consulting, speaking and teaching, membership on advisory committees or review panels, board membership, and other activities from which remuneration is received, or expected. ACCME considers relationships of the person involved in the CME activity to include financial relationships of a spouse or partner.

Conflict of Interest: Circumstances create a conflict of interest when an individual has an opportunity to affect CME content about products or services of an ineligible company with which he/she has a financial relationship.

The ACCME also requires that ACS manage any reported conflict and eliminate the potential for bias during the educational activity. Any conflicts noted below have been managed to our satisfaction. The disclosure information is intended to identify any commercial relationships and allow learners to form their own judgments. However, if you perceive a bias during the educational activity, please report it on the evaluation.

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
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Gain familiarity with recent technological, scientific and clinical advances in the study of the human voice;
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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.

The Voice Foundation Board of Directors

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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**
Michael S. Benninger,
Michael M. Johns
Robert T. Sataloff

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

**Voice Pedagogy**
David Meyer, Scott McCoy
Robert T. Sataloff

**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**
Ronald C. Scherer, Chair
Fari Alipour
RJ Baken
Mara Behlau
Dimitar Deliyski
Ulrich Eysholdt
Johan Sundberg
Jan Švec

**Hamdan International Presentation Award**
Rahul Shrivastav, Chair
Jonathan Bock
Ray Colton
Aaron Johnson

**Sataloff Award for Young Investigators**
Norman Hogikyan, Chair
Dale Ekbom
Eric Hunter
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 Schlomicher-Thier

**Best Student Award Committee**
Shaheen Awan, Chair
Claudia Eckley
Jeannette LoVetri
Lyndsay Leigh Madden
Stephanie Misono
Peter Popolo
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**

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**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_

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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 – *Rahul Shrivastav, 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
War of the Words

I would go to Jim Gould complaining, “This is hopeless. This is just hopeless. We can’t even agree on a basic thing. We’ll never get anywhere.” And Jim would respond, in that calm, quiet, and deliberate way that he had: “We will learn to talk to each other.”
~ RJ Baken, PhD  Broadening the Circle

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.

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, Ph.D. LIVE
  Medical Panelist: Charles Larson, Ph.D.
  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.

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, Ph.D.

10:48a Closure of The Posterior Glottis during Singing: True or Not?
   Claudio Storck, M.D.

11:00a-11:30a Panel DISCUSSION: Moderator Johan Sundberg, Ph.D. LIVE
   Medical Panelist:
   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)

Presentation Outreach Committee Meeting LIVE ZOOM
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 Videendoscopy System Hamzeh Ghasemzadeh, Ph.D.

**THURSDAY, JUNE 3, 2021**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 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-3:30p | Panel DISCUSSION: Ronald C. Scherer, Ph.D. **LIVE ZOOM**  
         Medical Panelist:  
         Panel: Ghasemzadeh, Yousef, Anand, Svec, Herbst                       |

### Ripple Effect

*Almost anything in voice, if you scratch the surface hard enough and deep enough you’ll find Jim [Gould] somewhere.*  
~ 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.*

*Care of the Professional Voice 2021*
<table>
<thead>
<tr>
<th>Title</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>Evaluation of Factors Affecting Speech-Specific Quality of Life in Patients After Total Laryngectomy</td>
<td>Hiu Fung Chan, M.Sc.</td>
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<td>Automated Quantification of Inflection Events in The Electroglottographic Signal</td>
<td>Juliana Codino, CCC-SLP, M.S.</td>
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<td>Influence on Spectral Energy Distribution of Emotional Expression</td>
<td>Soledad Correa, M.D.,</td>
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<td>Identifying the Impact of Vocal Hygienic Advice on The Voice of University Lecturers</td>
<td>Francesca D’Alessandro, B.A.</td>
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<td>Relationship Between Vocal Symptoms and Vocal Handicap Index in University Professors</td>
<td>Gabriel Trevizani Depolli</td>
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<td>Effect of Flow Phonation Voice Exercises on Vocal and Aerodynamic Measures in Undergraduate Student Singers</td>
<td>Jorge Andres Diaz, B.M.</td>
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<td>Resonance Tube Therapy in Individuals with Parkinson’s Disease: Clinical Trial</td>
<td>Ana Paula dos Santos, CCC-SLP, M.S.</td>
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<td>The Relationship Between the Voice Handicap Index, The Voice-Related Quality of Life, And the Vocal Fatigue Index in Csd Graduate Students</td>
<td>Marina Englert, Ph.D.</td>
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<td>Validation of The Acoustic Voice Quality Index and The Acoustic Breathiness Index in The Brazilian Portuguese</td>
<td>Marina Englert, Ph.D.</td>
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<td>The Impact of Languages and Cultural Backgrounds on Voice Quality Analyses</td>
<td>Marco Fantini, M.D.</td>
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<td>The Influence of Laryngeal Adductory Effort and Glottic Behavior on the Vibratory Mechanisms: An Exploratory Study</td>
<td>Leidy Lorena Forero Suárez, M.Sc.</td>
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<td>Program for The Promotion of Vocal Health and Low Levels of Stress in The Workplaces of University Teachers.</td>
<td>Veronica Alexis Gonzalez, SLP, M.S.</td>
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<td>Effects of A Voice Therapy Program for Male to Female Transgender Individuals</td>
<td>Mary Gorham-Rowan, Ph.D.</td>
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<td>Training Audio-Perceptual Ratings: Effects on Rater Confidence</td>
<td>Renee Gottliebson, Ph.D.</td>
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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 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.

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.
**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: Kristiane van Lierde

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.

8:50a  What’s Personality Got To Do with Voice Disorders?
       Uncovering Neurobiological Mechanisms
       Miriam van Mersbergen, Ph.D.

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

9:40a  Coffee Break

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

10:40a 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.
Workshops Session I (1:30pm-2:25pm)

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 Singer
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
FRIDAY, JUNE 4, 2021

Workshops Session III (3:30pm-4:25pm)

Singing Voice

The Messa di Voce for Vernacular Styles
*Norman Spivey, D.M.A., Mary Saunders-Barton, MA*

Tone Deaf Performers: What to Do
*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 Hormázabal

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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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, M.D.

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00a</td>
<td>Diagnosis and Analysis of Vocal Fold Movement Disorder Based on Deep Learning</td>
<td>Peiyun Zhuang, M.D.</td>
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<tr>
<td>8:10a</td>
<td>Comparing Audio and ThroatAccelerometer Signals as a Function of Subglottal Pressure in Different Phonation Types</td>
<td>Johan Sundberg, Ph.D.</td>
</tr>
<tr>
<td>8:20a</td>
<td>Use of Surface Electromyography (SEMG) as a Diagnostic Measure of Muscle Tension Dysphonia: An Evidence-Based Systematic Review</td>
<td>Feifan Wang, Ph.D. Candidate</td>
</tr>
<tr>
<td>8:30a</td>
<td>References Values for the Current Perception Threshold in the Pharynx Based on a Study of a Healthy Population</td>
<td>Wen Xu, M.D.</td>
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<tr>
<td>8:40a</td>
<td>Treatment Outcomes of Benign Lesions of Vocal Fold in Children</td>
<td>Wen Xu, M.D.</td>
</tr>
<tr>
<td>8:50a</td>
<td>Impact of Facial Mask on Auditory-Perceptual and Acoustic Characteristics of Voice and Speech – Preliminary Findings</td>
<td>Duong Nguyen, M.D., Ph.D.</td>
</tr>
<tr>
<td>9:00a</td>
<td>H2O2 Concentration in Exhaled Breath Condensate Increases After Phonotrauma: A Promise of Noninvasive Monitoring?</td>
<td>Marco Guzman, Ph.D.</td>
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<tr>
<td>9:10a</td>
<td>OpenHSV, An Open Platform for Laryngeal High-Speed Videendoscopy</td>
<td>Andreas Kist, Ph.D.</td>
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<tr>
<td>9:20a</td>
<td>DISCUSSION <strong>LIVE ZOOM</strong></td>
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“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](https://voicefoundation.org/store/)

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**Care of the Professional Voice 2021**
SATURDAY, JUNE 5, 2021

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  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.
SUNDAY, 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)

- Meeting of The Voice Foundation Local Chapters 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
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
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 Symposiums 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 Ferreira 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

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
Sunday, June 6, 2021

Philadelphia

The Symposia foster cross disciplinary understanding, collaboration, deeper thinking about one’s own questions, and long-term friendships that stimulate future harmony within the professions.

~ RC Scherer, PhD  Broadening the Circle

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 SeM.M.ler, 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
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
SUNDAY, JUNE 6, 2021

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
Sunday, June 6, 2021

Voice Pedagogy IB (3:10PM—5:30PM)

Chair: Rachelle Fleming, D.M.A.

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

3:20p  Pedagogical Education of The Current Voice Teacher Population
       Rachelle Fleming, D.M.A.

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, D.M.A.

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

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

4:00p  Singing at Menopause: A Systematic Review
       Mauro Barro Fiuza, M.S.

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

4:20p  The Effect of Formant Tuning on Intonation Perception
       Daniel Andrew Lying, M.M.

4:30p  The Key to Singing Off-Key: The Amplified Singer and Pitch Perception Distortion
       Sarah Kervin, M.M., M.S.

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

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

5:00p  Putting the Human Touch in Your AI Voice
       Allison Smith, B.F.A.

5:10p  DISCUSSION LIVE ZOOM

5:20p  Adjourn

6:00pm - 7:30pm  NATS Voice Science Advisory Committee Meeting
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

TVF Advisory Board
12:00 PM - 1:00 PM

TVF Board of Directors
1:00 PM - 2:00 PM

Friday, June 4
Symposium Planning Committee
12:30pm - 1:30pm

Saturday, June 5
Voice Laboratory Representatives
12:15 -1:15pm

Presentation Outreach Committee
12:15pm -1:15pm

Sunday, June 6
NATS Voice Science Advisory
6:00pm - 7:30pm

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, Jítka Vydrůvá, Adam Novozámský, Aleš Zita, Barbora Zítová, 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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Thank You

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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