Jefferson Medical College of Thomas Jefferson University
in joint sponsorship with
The Voice Foundation presents:

THE
VOICE
FOUNDATION'S

28th ANNUAL SYMPOSIUM:
CARE OF THE
PROFESSIONAL VOICE

June 2–June 6, 1999

The Sheraton Society Hill Hotel
Philadelphia, Pennsylvania
Robert Thayer Sataloff, M.D., D.M.A.
Chairman

in collaboration with
Graduate Hospital
American Institute for Voice and Ear Research
Temple University
Academy of Vocal Arts

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Jefferson Medical College
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Temple University
The Academy of Vocal Arts

PROGRAM COMMITTEES
SCIENTIFIC PROGRAM
Christy Ludlow
Ronald Scherer
Johan Sundberg

MEDICAL PROGRAM
Michael Benninger
Robert Thayer Sataloff

VOICE THERAPY AND PEDAGOGY
Ron Baken
Robert Thayer Sataloff

ACCREDITATION
This activity has been planned and implemented in accordance with the Essentials and Standards of the Accreditation Council for Continuing Medical Education through the joint sponsorship of Jefferson Medical College and The Voice Foundation. Jefferson Medical College of Thomas Jefferson University, as a member of the Consortium for Academic Continuing Medical Education, is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians. Jefferson Medical College designates this educational activity for a maximum of 38.75 hours in Category 1 credit towards the AMA Physician’s Recognition Award. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.

DISCLOSURE STATEMENT
All faculty participating in continuing medical education activities sponsored by Jefferson Medical College are expected to disclose to the activity audience any real or apparent conflict(s) of interest related to the content of their presentation(s). Full disclosure of faculty relationships will be made at the activity.

ASHA CONTINUING EDUCATION UNITS
Temple University, Department of Communication Sciences, is approved by the CEB of ASHA to sponsor CE activities in speech-language pathology and audiology. This program is offered for up to 3.4 CEUs, intermediate level, professional area. ASHA approval of CE sponsorship does not imply endorsement of course content, specific products, or clinical procedures.

GRADUATE CREDIT
Graduate credit may be obtained through independent study from your University’s Department of Speech-Language Pathology. Registration must be completed prior to the first day of the Symposium.

NEEDS ASSESSMENT
The new 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 twenty-seven years The Voice Foundation’s Annual Symposium has been the international meeting designed to fulfill these needs.

COURSE OBJECTIVES
♦ to provide information regarding recent technological, scientific, and clinical advances in the study of the human voice.
♦ to provide information regarding diagnosis and treatment of voice disorders and implications of vocal fold surgery.
♦ to increase understanding of various therapies and teaching techniques, including examination/evaluation of the voice, through workshops by recognized leaders in laryngology, speech-language pathology, speaking, and singing.
♦ to foster dialogue and cooperation among otolaryngologists, speech-language pathologists, voice scientists, voice researchers, singing teachers, voice trainers, performers, and others who are concerned with care of the professional voice.
♦ to increase understanding of the relationship of normal and abnormal voice production through acoustic, aerodynamic, muscular, respiratory, anatomic, and videostroboscopic measures
♦ to foster appropriate selection, implementation, effectiveness, and interpretation of laboratory measures by reviewing selected advantages and limitations of current technology.
**WEDNESDAY, JUNE 2, 1999**

5:00p Registration opens  
6:00p Introduction and Welcome  
   *Robert Thayer Sataloff, Chairman*  
6:15p Anatomy and Physiology of Phonation: An Overview  
   *Robert T. Sataloff*  
   Production and Perception of Voice: An Overview  
   *Christy Ludlow, Jenny Iwarsson, Ronald Scherer and Johan Sundberg*  
9:15p Adjourn

**THURSDAY, JUNE 3, 1999**

7:00a Meeting of the Quintana Voice Research Award Committee  
   *(Location to be posted)*  
7:30a Registration opens  
   *(Lobby outside Grand Ballroom)*  
8:00a Opening Remarks  
   *Robert Thayer Sataloff, Chairman*  
   *Paul Brucker, President, Thomas Jefferson University*

**BASIC SCIENCE SESSION I: PHYSIOLOGY AND BIOMECHANICS**  
*Chairperson: Ron Scherer*

- **8:15a** The Virtual Vocal Folds: What Can and Cannot Be Done With Them  
  *Ingo Titze*  
- **8:45a** Phonation Threshold Pressure After Vocal Fatigue and Hydration  
  *Nancy Solomon, Michelle DiMattia*  
- **9:00a** Hyaluronic Acid - How it Might Facilitate the Vibration of the Vocal Fold Mucosa  
  *Roger Chan, Ingo Titze*  
- **9:15a** Spatial Variation of Vocal Fold Contact Pressure  
  *Douglas Montequein, David Berry, Fariborz Alipour, Ingo Titze*  
- **9:30a** Vocal Fold Impact Stress Analysis  
  *Jack Jiang, Anand Shah, Franklin Banzali, Markus Hess, Katherine Verdolini, David Hanson*  
- **9:45a** Panel Discussion  
  *Moderator: Ron Scherer*  
  *Panelists: Roger Chan, Jack Jiang, Douglas Montequein, Nancy Solomon, Ingo Titze*  
- **10:00a** Coffee Break  
  *Bromley/Claypoole*

**BASIC SCIENCE SESSION II: ANATOMY AND RESPIRATION**  
*Chairperson: Johan Sundberg*

- **10:30a** Histologic and Histochemical Analysis of the Cricothyroid Pars Media  
  *George Charpied, Gregory Grillone*  
- **10:45a** The Cartilaginous and Osseous Infrastructure of the Human Larynx: Histopathologic Study from the Second Trimester through the Ninth Decade  
  *John Hicks, Daniel Vincent, C. Richard Stasney*  
- **11:00a** Consistency of Inhalatory Breathing Patterns in Professional Operatic Singers  
  *Monica Thomasson, Johan Sundberg*  
- **11:15a** Effects of Inhalatory Abdominal Wall Movement on Vertical Laryngeal Position during Phonation  
  *Jenny Iwarsson*
11:30a  Panel Discussion  
   Moderator: Johan Sundberg  
   Panelists: George Charpied, John Hicks, Jenny Iwarsson, Monica Thomasson  
12:00p  Lunch Break (on your own)  
   Meeting of the Journal of Voice Editorial Board  
   (Location to be posted)  

**BASIC SCIENCE SESSION III: MOTOR LEARNING**  
Chairperson: Christy Ludlow  
1:30p  KEYNOTE: Motor Learning Principles for Therapy  
   Richard Schmidt  
2:30p  Differentiation of Non-Conscious Item-Specific versus Generalized Learning for a Voice Task  
   Katherine Verdolini, Daniel Schacter, James Kobler  
2:50p  Panel Discussion  
   Moderator: Christy Ludlow  
   Panelists: Richard Schmidt, Katherine Verdolini  
3:00p  Coffee Break  
   Bromley/Claypoole  

**BASIC SCIENCE SESSION IV: EXPRESSION, PERCEPTION AND ACOUSTICS**  
Chairperson: Ron Scherer  
3:30p  SPECIAL SESSION: Musical Expressivity  
   Johan Sundberg  
4:30p  Correlation Between Perceptual Rating and Acoustical Analysis of Dysphonia: Sustained Vowel vs. Running Speech  
   Philippe Dejonckere, G. Wieneke, Mariella Mausen  
4:45p  Level and Center Frequency of the Singer’s Formant  
   Johan Sundberg  
5:00p  An Investigation of a Modal-Falsetto Register Transition Hypothesis Using Helox Gas  
   Martin Spencer, Ingo Titze  
5:15p  Presentation of the 9th Annual Van L. Lawrence Award  
5:30p  Dinner (on your own)  
   Meeting of the Van L. Lawrence Fellowship Award Winners; special opportunity to meet the Poster Exhibitors  

**POSTER SESSION AND AWARD FOR BEST POSTER**  
Sheraton Society Hill Hotel: Location to be posted  
5:30-7:30 pm  

*List incomplete at the time of printing*  
Acoustic Characteristics and Problems of Voice Major Students with Vocal Nodules in Korea  
   Sung Min Jin, Dae Young Kim, Kyung Chul Lee, Yong Bae Lee  
Acoustic, Perceptual, Air Volume and Trans-Diaphragmatic Pressure Measurements in a Supported Singing Voice: A Case Study Using the Expanded Rib-Cage Technique for Breath Management  
   Claudia Mautleón, Fernando Pessolano, Jorge Gurlekin, Eduardo De Vito  
   Jana Sedláčková  
An Alternative to the Yawn-Sigh Technique  
   Jo Estill, Steven Knucha  
Choir Acoustics  
   Duane Karna
Dissimilarity and the Classification of Singing Voices

Molly Erickson

Effect of Duration on Voice Control in Response to Pitch Shifted Feedback in Parkinson’s Disease Patients and Normal Controls

Swathi Kiran, Charles Larson

Grover Voice Evaluation Method Research Update

Mary Grover

How to Teach a Rudiment of Diction Which Has No Alphabet Sign

Ailene Goodman

Hypopharyngeal and Laryngeal Movement During Blowing of Wind Instruments

Matthias Weikert, Josef Schlümoch-Thier

Indirect Microlaryngostroboscopic Surgery (IMS)

Ji-xiang Liu

The Influence of a Functional Deficit of the Vertebral Column on the Phonation, Demonstrated on the Untrained and on the Professional Voice

Manfred Hülse

Investigation of the (High) Closed Quotient in the Singing Voice

Harm Schutte, Jan Švec, Don Miller

Laryngeal Closure Pressure during Phonation in Humans

Takayo Yamana, Kazutomo Kitajima

An Occupational Voice Medicine Program for Voice Re-Education and Voice Rehabilitation in Austrian School Teachers

Josef Schlümoch-Thier, Hannes Trapper, Matthias Weikert

The Old Italian Phrase “Si canta come si parla” Still has Relevance in the Teaching of Singing Technique Today

Werner Nel

Perception of Fundamental Frequency Changes and Roughness Resulting from Subharmonics in the Glottal Source

Christine Bergan, Ingo Titze

Phonation Disorders and Voice Rehabilitation Therapy

Yongxiang Liu

Phonomedicine Treatment of Benign Mucosa Lesion of the Vocal Fold

Gong Hui-Ji

Possibilities of the Phonological Laboratory for Improving the Diagnostic Treatment Strategy

Dosjo Doskov

Preliminary Analysis of Soccer Reporter Voices

Jorge Gurleknian, Marla Facal

Pressure-Flow Relationship in an Excised Hemilarynx Model

Fariborz Alipour, Ronald Scherer, Daniel McCabe, Heather Hughes

Singer Regains Injured Voice in One Therapy Session

Mary Grover

Spectral Changes Due to Performance Environment in Singers, Nonsingers and Actors

Howard Rothman, W. S. Brown, Ronald LaFond

Synchronous Analysis of Multi-Channel Spectrum for Human Resonance Cavity

Hong Yongwang

Synthesis of a Child’s Singing Voice

Sten Ternström, Johan Sundberg

Ten Commands to Vocal Mastery

Joan Regnell, Chrissellene Petropoulos, Pamela Helton

Vocal Fold Hemorrhages: Ankara University Experience

Gürsel Dursun, Gaffar Aslan

Vocal Fold Scarring

Susan Thibeault, Steven Gray, Roger Chan, Diane Bless, Charles Ford, Nadine Connor

Voice Laboratory Management

Christina A. Jackson-Menaldi, Jose Luis Menaldi

Voice Production in an Unusual Case of Laryngeal Amyloidosis

Mark Shikowitz, Alison Behrman, Seth Dailey
BASIC SCIENCE SESSION V: PEDIATRIC VOICE PANEL
Chairperson: Johan Sundberg

7:30p Moderator: Elaine Stathopoulos
Panelists:
Pamela Davis: Neural Control of Voice and Breathing: Developmental Aspects
Steven Gray and Marshall Smith: Pediatric Gross and Microanatomy, and Pediatric Laryngeal Disorders
Christine Sapienza: Pediatric Voice Disorders
Elaine Stathopoulos: Development of the Normal Child Voice: Acoustic and Aerodynamic Characteristics

9:00p Adjourn

FRIDAY, JUNE 4, 1999

7:00a Meeting of the NATS Voice Science Advisory Committee and the Voice Science Steering Committee
(Location to be posted)

CHAOS REVISITED
Chairperson: Ron Baken
Sheraton Society Hill: Grand Ballroom

8:00a Ordered Disorder and Disordered Order
R. J. Baken

9:00a An Unpredictable View of Voice Production
Alison Behrman

10:00a Coffee Break
Bromley/Claypoole

10:30a A gentle whiff of chaos from patients, singers and experiments
David Berry, Jan Švec

11:45a Chaotic Discussion
Moderator: Ron Baken
Panelists: Alison Behrman, David Berry, Jan Švec

12:00p Lunch Break (on your own)
Meeting of The Voice Foundation Board of Directors
(Location to be posted)

SPEECH-LANGUAGE PATHOLOGY SESSION IA
(concurrent with Session IB)
Chairperson: Reinhardt Heuer
Sheraton Society Hill: Grand Ballroom

1:00p Effects of Stimulation Techniques on Vocal Responses: Implications for Assessment and Treatment
Hiroya Yamaguchi, Rahul Shrivastav, Moya Andrews

1:15p Effects of Task and Vocal Intensity on Acoustic, Laryngeal Aerodynamics, and Respiratory Kinematic Measures of Children, Women, and Men
Jessica Huber, Michiel Peart, Jason Collins, Elaine Stathopoulos

1:30p Reliability of the Multidimensional Voice Program (MDVP) for Acoustic Analysis
Ann Marie Cimino, Christine Sapienza

1:45p Comparisons of Software Used Commonly for Acoustic Analysis of Voice
Reinhardt Heuer, Mona Abaza, Michelle Horman, Robert Sataloff

2:00p Use of Speech Recognition Software - A Vocal Endurance Test for the New Millenium
Marc Haxer, Leslie Guinn, Norman Hogikyan

2:15p Spectral Correlates of Perceived Voice Quality in 10-Year-Old Children
Peta White, Anita McAllister, Elisabeth Sederholm

2:30p Acoustic Characteristics of European-American and Latin-American Male Adults During Oral Reading and Sustained Phonation of Vowels
Heather Sonner-Ward, Molly Erickson
2:45p Acoustic Analysis of the Singing and Speaking Voice in Singing Students  
   Donna Lundy, Soham Roy, Roy Casiano, Jun Xue
3:00p Coffee Break  
   Bromley/Claypoole
3:30p Multimodal Standardization and Objective Analysis of Vocal Characteristics on Multicultural Populations  
   Mary Andrianopoulos, Keith Darrow
3:45p Vocal Quality Perception of Synthesized Signals  
   Edwin Yiu
4:00p Identification of a Non-Invasive Indicator of Phonatory Glottic Gap  
   Katherine Verdolini, James Kobler, Helen Hanson, Danunza Nunn, Claudion Milstein, Joy Walsh, Robert Hillman
4:15p Investigation of the Effective Closed Quotient in the Singing Voice  
   Don Miller, Harm Schutte
4:30p High Risk Performers: Laryngoscopic and Acoustic Characteristics  
   Bari Hoffman, Jeffrey Lehman, David Ingram, Christine Sapienza
4:45p Measurement of Vocal Capacity in Finnish University Students  
   Timo Leino, Anne-Maria Laukkonen, Elinita Mäki, Irma Ilomäki
5:00p Adjourn

SPEECH-LANGUAGE PATHOLOGY SESSION IB  
(concurrent with Session IA)

Chairperson: Moya Andrews  
Sheraton Society Hill: Grand Ballroom

1:00p Observations of Laryngeal Height in Classically Trained Singers  
   Jerold Teachey, Sandra Franks, William Hinkle, Jan Petri
1:15p Formant Frequency Tuning and Production of the Singer’s Formant: Radiographic Support for Current Thinking  
   William Hinkle, Sandra Franks, Jan Petri, Jerold Teachey
1:30p An Analysis by Synthesis Approach to Understanding Vocal Intensity in Countertenor Falsetto Phonation  
   Kenneth Tom, Ingo Titze
1:45p Relationship Between Conversational Range, Habitual Pitch, and Total Musical Range in Trained Singers  
   Wen-Hui Su, Rahul Shrivastav
2:00p Longitudinal Study of Acoustic Changes in Voice Students  
   Ana Mendes-Schwartz, Howard Rothman, W.S. Brown, Christine Sapienza
2:15p Comparing Belt Versus Classical Technique Using Magnetic Resonance Imaging and Videofluoroscopy  
   Christopher Lombardo, Joseph Brugman, Dee Parker, Lisa Popeil
2:30p Singer’s Formant in Sopranos: Fact or Fiction?  
   Rudolf Weiss, W.S. Brown, Jack Morris
2:45p Basic Techniques of Single Voice Polyphony  
   Bjorn Merker, Carol Pendergrast
3:00p Coffee Break  
   Bromley/Claypoole
3:30p Vocal Effort in Singers  
   Raymond Colton
3:45p Physiological Control Mechanisms of Vocal Intensity in Normal Speakers  
   Frederick Hodge, Raymond Colton
4:00p Inspiratory Phonation as a Diagnostic Procedure  
   Deborah Andrade, Mara Belhau, Milene Lopes, Osiris do Brasil
4:15p The Role of Cognitive Cueing in Eliciting Vocal Variability  
   Moya Andrews, Rahul Shrivastav, Hiroya Yamaguchi
4:30p Chant-Therapy for Treating Vocal Fatigue Among Public School Teachers: A Preliminary Study  
   Daniel McCabe, Ingo Titze
4:45p  The Larynx in Flute Playing  
Joon-Hee Hwang, Martyn Mendelsohn, William Thorpe, Neville Fletcher, Pamela Davis

5:00p  Adjourn

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**GALA DINNER FOR THE VOICE FOUNDATION**  
*(Black Tie)*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:00p</td>
<td>Cocktails</td>
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<tr>
<td>7:15p</td>
<td>Entertainment in the Grand Ballroom</td>
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<td>8:30p</td>
<td>Dinner</td>
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**SATURDAY, JUNE 5, 1999**

**MEDICAL SESSION IA**  
*(concurrent with Medical Session IB)*

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>8:00a</td>
<td>The Thyroarytenoid Muscle Can Change the Biomechanics of Vocal Fold</td>
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<td>Vibration for Different Vowels</td>
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<td>Donald Weisz, Ira Sanders</td>
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<td>8:15a</td>
<td>Fundamental Frequency Measures and Their Association with Sex Steroid</td>
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<td>Hormone Levels in Premenopausal and Postmenopausal Women</td>
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<td>Carmen Ramos Pizarro, Diane Bless</td>
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<td>8:30a</td>
<td>The Interrelationship of Subglottic Air Pressure, Fundamental Frequency, and</td>
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<td>Intensity During Speech</td>
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<td>Randall Plant, Ross Younger</td>
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<td>8:45a</td>
<td>New Stroboscopy Technologies</td>
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<td>Markus Hess, Michael Ludwigs</td>
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<td>9:00a</td>
<td>Human Laryngeal Transplant: Voice Performance Update</td>
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<td>Douglas Hicks</td>
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<td>9:15a</td>
<td>Practical Aspects of the Tissue Effects of the CO₂ and Nd:YAG Lasers in the</td>
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<td>Canine and Human Glottis</td>
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<td>Rose Mohr, Christopher Sullivan, Hassan Abbass, Nancy Liu, Chik-Kwan Tang</td>
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<td>9:30a</td>
<td>The Effect of Radiotherapy on Vocal Fold Functions in Early Glottic Cancers:</td>
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<td>Videolaryngostroboscopic Findings</td>
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<td>Gürsel Dursun, Gaffar Aslan</td>
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<td>9:45a</td>
<td>Phonosurgical Reconstruction Subsequent to Early Glottic Cancer Resection</td>
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<td>Rosemary Desloge, Steven Zeitels, Glenn Bunting, Robert Hillman</td>
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<td>10:00a</td>
<td>Coffee Break</td>
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<tr>
<td>10:30a</td>
<td>Influence of Age and Voice Lessons on Vocal Health for Youth and Young Adult Singers</td>
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<td>Emily Tepe, Quiana Sampson, Ellen Deutsch, James Reilly, Robert Sataloff</td>
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<td>10:45a</td>
<td>Vocal Fold Pathology Encountered in a Pediatric Voice Clinic</td>
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<td>Roger Nuss, Geralyn Woodnorth, Robert Hillman</td>
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<td>11:00a</td>
<td>Rational Use of Herbal and “Natural” Medicines: What Singers and Their</td>
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<td>Caregivers Should Know</td>
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<td>Jason Surov</td>
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<td>11:15a</td>
<td>Allergic, Dietary, Chemical, Stress, and Hormonal Influences in Voice Abnormalities</td>
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<td>Wallace Rubin</td>
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<td>11:30a</td>
<td>Vocal Signs and Symptoms in Patients with Allergic Rhinitis</td>
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<td>Mara Behlau, Simone Corsi, Fábio Castro</td>
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<td>11:45a</td>
<td>Dysphonia Associated with Inhaled Steroids</td>
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<td>Jeremy Lavy, G. Wood, John Rubin, M. Harries</td>
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<td>12:00p</td>
<td>The Role of Patient Perception in the Treatment of Dysphonia</td>
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<td>Alison Behrman, Allan Abramson, Katherine Freeman</td>
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Joseph Spiegel, Kate Emerich, Mona Abaza, Robert Sataloff

12:30p Lunch Break (on your own)
Meeting of the Voice Laboratory Representatives
(Location to be posted)

MEDICAL SESSION IB
(concurrent with Medical Session IA)
Chairperson: Jean Abitbol
Sheraton Society Hill: Grand Ballroom

8:00a Flexible Fiberoptic and Rigid Videostroboscopy of a Normal Cohort
Steven Bielamowicz, Rebecca Neubert, Sheila Slager, Joan Regnell, Susan Miller

8:15a Role of Mechanical Stress in Tissue Recovery Subsequent to Acute Phonotrauma
Katherine Verdolini, Steven Zeitels, Andrew Maniotis, Rosemary Desloge, Robert Hillman

8:30a Phonotrauma Associated with Crying
Clark Rosen, Kimberly Heckman, Thomas Murry

8:45a Kissing Nodules and the Ruptured Varicose: Accident of the Premenstrual Voice Syndrome: 50 Cases
Jean Abitbol, Jesse Selber, Patrick Abitbol, Béatrice Abitbol

9:00a The Importance of Laryngeal Morphology in the Formation of Posterior Granulomas
Paulo Pontes, Noemi De Biase, Leny Kyrillos, Antonio Pontes

9:15a The Necessity of pH-Monitoring for the Examination of Patients with Chronic Hoarseness: The Use of Probatory Treatment with Pantoprazole
Walter Habermann, Andreas Eherer, Karl Kiesler, Gerhard Friedrich

9:30a Calibrated Color Analysis of the Larynx with Gastroesophageal Reflux
Jean Huang, Raymond Colton, Richard Kelley

9:45a Effect of Acid on the Background Activity and Evoked Response to Mechanical Stimulation of Internal Laryngeal Nerve Afferent Fibers in the Cat
Pamela Davis, Bruce nail

10:00a Coffee Break
Exhibit Area

10:30a The Irritable Larynx: What are We Talking About and How Do We Treat It?
Mary Andrianopoulos, Gregory Gallivan, Holly Gallivan

10:45a Laryngospasm
Joseph Spiegel, Robert Sataloff, Kate Emerich, Mona Abaza

11:00a Superior Laryngeal Nerve Contribution to Adductor Laryngeal Force in an In Vivo Canine Model of Phonation
Michael Jakobsen, Kurt Birusingh, Ming Ye, Gerald Berke, Joel Sercarz

11:15a An Electromyographic Study of the Laryngeal Muscles in Adductor Spasmodic Dysphonias
Shinobu Itsumura

11:30a Acoustic Variations of Abductor Spasmodic Dysphonia
Julia Edgar, Christine Sapienza, Christy Ludlow

11:45a Treatment Outcome of Adductor Laryngeal Dystonia Symptoms: Subjective, Acoustic and Physiologic Assessment
George Charpie, Gregory Grillone

12:00p Treatment of Organic Vocal Tremor with Botulinum Toxin Chemodenervation: A Case Study
George Charpie, Gregory Grillone

12:15p Laryngeal Amyloidosis and Laryngocele: An Exceptional Case Discovered After Botulinum Toxin Injection: Coincidence?
Jean Abitbol, Patrick Abitbol

12:30p Lunch Break (on your own)
Meeting of the Voice Laboratory Representatives (Location to be posted)
WORKSHOPS
Sheraton Society Hill Hotel: (Locations to be posted)

SESSION I 1:00 – 1:45

Singing Voice
- Klara Meyer
- Connie Cuccaro Penhorwood
- George Shirley

Speaking and Acting Voice
- Lucille Rubin

Broadway/West End Singing
- Mark Meylan

Speaking and Singing for the Injured Voice
- Jean Westerman Gregg

Vocal Function Exercises
- Joseph Stemple

Treatment of the Parkinsonian Voice
- Lorraine Ramig

Instrumental Examination of the Voice: Relevancy and Feasibility
- Christine Sapienza and Alison Behrman

SESSION II 1:50 – 2:35

Singing Voice
- Raquel Cortina
- Karen Peeler

Voice Rehabilitation: Strategies for Singers and Actors
- Anita Kozan

Speaking and Acting Voice
- Ralph Zito

Speech for Gender Dysphoria
- Reinhardt Heuer

Alexander Technique
- Diane Gaary

Overtone Singing
- Rollin Rachele

Singing and Speaking for the Injured Voice
- Linda Carroll and Amy Rader Minasian

Assessing Dysphonia: The Role of Video Stroboscopy
- Guy Cornut and Marc Bouchayer

SESSION III 2:40 – 3:25

Singing Voice
- Katherine Ardo
- Ruth Falcon

Singing Voice: Proprioception, Empathy and Sympathy
- Oren Brown

Singing for the Injured Voice
- Deanna McBroom

Speaking and Acting Voice
- Bonnie Raphael

Broadway Singing for the Classically trained Voice
- Claudia Catania

Vocal Registers: Pedagogical Overview
- Steve Austin

Feldenkrais
- Bob Chapra
SESSION IV 3:30 – 4:15

Singing Voice
Betty Lane (Gospel Singing techniques)
Katherine Ciesinski (Contemporary Music techniques)
Nancy Zylstra (Early Music techniques)

Speaking and Acting Voice
Janet Feindel

Speaking for the Injured Voice
Patricia Doyle

Use of the Spectrogram in Teaching Voice
Garyth Nair

Broadway Singing
Jeannette Lovetri

Presence, Imagination and Imagery in Singing
Meribeth Bunch

SESSION V 4:20 – 5:05

Singing Voice
Janice Chapman
Freda Herseth
Kathleen Wilson

Speaking and Acting Voice
Catherine Fitzmaurice

Speaking for the Injured Voice
Joan Lader

Registers of the Singing Voice and Spectrum Analysis
Donald Miller

Broadway Singing
Robert Edwin

Resolving “the Break” for Broadway Singers
Kristin Samuelson

5:15p Dinner (on your own)
Meeting of the Scientific Advisory Board (Location to be posted)

SPECIAL EVENING SESSION
Sheraton Society Hill: Grand Ballroom

7:00p Medical Evaluation and Treatment of Professional Singers: An Overview
Robert Thayer Sataloff

10:00p Adjourn

SUNDAY, JUNE 6, 1999

7:00a Meetings of the Board of Directors of the International Association of Phonosurgeons and “New Investigator Research Forum”
(Locations to be posted)

MEDICAL SESSION II
Sheraton Society Hill: Grand Ballroom

8:00a Panel: Medical Problems in Performers
Moderator: Joseph Spiegel
Panelists: Sanford Archer, Michael Benninger, Gerald Berke, Roy Casiano,
John Rubin, Rhonda Rulnick, Gayle Woodson

9:00a Panel: Management of Vocal Fold Scarring
Moderator: Janina Casper
Panelists: Marc Bouchayer, Guy Cornut, Glendon Gardner, Barbara Jacobsen,
Gwen Korovin, Joan Lader, Thomas Murry, Clark Rosen

10:15a Coffee Break
Exhibit Area
10:45a Panel: Challenging Cases in Voice Surgery in Adults and Children
Moderator: Lucinda Halstead
Panelists: Charles Ford, Steven Gray, Reinhardt Heuer, Dennis Kraus, Nicholas Maragos, Steven Zeitels

12:00p Lunch Break (on your own)
   Meeting of the Symposium Planning Committee
   (Location to be posted)

MEDICAL SESSION IIIA
(concurrent with Medical Session IIIB)
Chairperson: Steven Zeitels

12:45p Phonomedicine: Training Residents in the Management of Dysphonic Patients
   Mark Shikowitz, Alison Behrman, Seth Dailey

1:00p Voice Handicap Index as an Outcome Measure Following Voice Disorder Treatments
   Thomas Murry, Miriam Sonbolian, Thomas Zullo, Clark Rosen

1:15p Voice-related Quality of Life (V-RQOL) Following Type I Thyroplasty for Unilateral Vocal Fold Paralysis
   Norman Hogikyan, Girish Sethuraman, Jeffrey Terrell, Carol Bradford, Ramon Esclamado

1:30p The Diagnosis and Management of Myasthenia Gravis Confined Primarily to the Larynx
   Vivian Mao, Mona Abaza, Joseph Spiegel, Steven Mandel, Mary Hawkshaw, Robert Sataloff

1:45p Migration of Teflon Extrinsic to the Larynx
   Rosemary Desloge, Steven Zeitels

MEDICAL SESSION IIIB
(concurrent with Medical Session IIIA)
Chairperson: Manuel Pais Clemente, M.D., Ph.D.

12:45p A 3-D Computed Tomographic Assessment of the Arytenoid Body in One-Vocal-Fold Paralysis; Before and After Lateral Cricoarytenoid Muscle Pull Surgery
   Shinobu Iwamura

1:00p Effects of Medialization Thyroplasty on Effort Level in Chronic Unilateral Vocal Fold Paralysis
   Jennifer Anderson, Carmen Ramos Pizarro

1:15p Soft Tissue Response in the Rabbit Larynx Following Implantation of Lactosorb (PLA/PGA Co-Polymer) Prosthesis for Medialization Laryngoplasty
   Ann Dufresne, Denis Lafreniere

1:30p Titanium Vocal Fold Medializing Implant (TVFMI) - A Novel Implant System for External Vocal Fold Medialization
   Gerhard Friedrich

1:45p Adjustable Laryngeal Implant for Unilateral Vocal Fold Paralysis
   Carole Dean, Christian Ahmarani

MEDICAL SESSION IIIA & IIIB

2:00p G. PAUL MOORE LECTURE
   The Cricothyroid Joint: Perspectives Gained since von Leden and Moore (1961)
   Joel Kahan

3:00p Coffee Break
   Bromley/Claypoole

3:30p Master Class
   Leslie Guinn

4:50p Closing Remarks
   Robert T. Sataloff

5:00p Adjourn
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17
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<thead>
<tr>
<th>HONORED MASTER CLASS TEACHERS</th>
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<tr>
<td>Renata Scotto 1984</td>
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<td>G. PAUL MOORE LECTURERS</td>
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<td>QUINTANA VOICE RESEARCH AWARD RECIPIENTS</td>
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<td>VOICE EDUCATION RESEARCH AWARENESS (V.E.R.A.)</td>
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<td>WILLBUR JAMES GOULD AWARD</td>
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<th>Full Course</th>
<th>Daily</th>
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</thead>
<tbody>
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<td>PHYSICIANS</td>
<td>US $700 (includes 1 ticket to gala)</td>
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<td>THERAPISTS</td>
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<tr>
<td>TEACHERS</td>
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<tr>
<td>PERFORMERS</td>
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<tr>
<td>NURSES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STUDENTS (must send copy of valid ID)</td>
<td>US $125</td>
<td>$40</td>
<td>T F S S</td>
</tr>
</tbody>
</table>

### LATE OR ON-SITE REGISTRATION

(Postmarked after May 3rd or at the door)

<table>
<thead>
<tr>
<th>Category</th>
<th>Full Course</th>
<th>Daily</th>
<th>Circle Day(s)</th>
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</thead>
<tbody>
<tr>
<td>PHYSICIANS</td>
<td>US $800 (includes 1 ticket to gala)</td>
<td>$275</td>
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<tr>
<td>RESIDENTS</td>
<td>US $400</td>
<td>$150</td>
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<tr>
<td>THERAPISTS</td>
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<td>TEACHERS</td>
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<tr>
<td>NURSES</td>
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<tr>
<td>STUDENTS (must send copy of valid ID)</td>
<td>US $175</td>
<td>$50</td>
<td>T F S S</td>
</tr>
</tbody>
</table>

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GALA CONCERT AND BANQUET (June 4th): $100  **YES**  **NO**

Please reserve early—seating limited

**YES, I WANT TO BECOME A MEMBER OF THE VOICE FOUNDATION!**

<p>| | | | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Life Membership</td>
<td>$5,000</td>
<td>Professional Membership</td>
<td>$250/275</td>
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<tr>
<td>Corporate Membership</td>
<td>$2,500</td>
<td>Sustaining Membership</td>
<td>$125</td>
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<tr>
<td>Institutional Membership</td>
<td>$500</td>
<td>Associate Membership</td>
<td>$50/75</td>
</tr>
</tbody>
</table>

**DISCOUNTS (does not apply to Gala)**

- Voice Foundation Associate Members - 10% off Symposium registration fee.
- Voice Foundation Sustaining Members - 10% plus US $25.00 off Symposium registration fee.
- Voice Foundation Professional Members or greater level - 20% off Symposium registration fee.

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Check enclosed (drawn on a United States bank) in the amount of US$  (Payable to The Voice Foundation)

Money Order enclosed in the amount of US$  

Please charge the amount of US$  to my: Visa  Mastercard

Card No.  Exp. Date  

Authorized Signature  

---

**PLEASE TYPE OR PRINT CLEARLY**

Name:

First (Given)  Middle Initial  Family Name  Degrees

Mailing Address:  [ ] Office (University, Hospital, etc.)  [ ] Home

---

Telephone (w)  (h)  FAX

---

Mail to:

The Voice Foundation,

1721 Pine Street,

Philadelphia, Pennsylvania 19103  U.S.A.

Tel: (215) 735-7999  FAX: (215) 735-9293

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**REGISTRATION FEE**

**Subtract Discount**

**TOTAL**

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**CANCELLATION POLICY**

Received before May 1st - full refund

Between May 1st and May 15th - 50%  

After May 15th - no refund

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Reg No:  Date Recvd:  Date Confirmed:
Hotel Accommodations

The Sheraton Society Hill Hotel, located at 2nd and Dock Streets in Philadelphia, Pennsylvania, has been chosen as our host hotel. Located on the Delaware River waterfront, in the heart of the Historic District, the 365-room luxury hotel offers guests 24-hour parking and in-room computer access.

The comfort and convenience of The Sheraton Society Hill Hotel is available at special rates for Symposium attendees. In order to receive these special rates, you must mention that you are attending The Voice Foundation Symposium and make your reservation by May 2, 1999.

single guest room: $145.00 per night; double guest room: $165.00 per night; triples and quadruples are also available

For reservations, please contact:
Sheraton Society Hill Hotel Reservation Office, One Dock Street, Philadelphia, PA 19106
Telephone: (215) 238-6000, Toll-Free: 1-800-325-3535, FAX: (215) 922-2709

For information about dormitory housing, please contact:
The Voice Foundation, 1721 Pine Street,
Philadelphia, PA 19103, (215) 735-7999, FAX: (215) 735-9293

Deadline for hotel or dormitory reservations is May 2, 1999.

FLY USAIR!

As the official carrier for The Voice Foundation's 28th Annual Symposium, USAir will offer you rates lower than you can obtain on your own. USAir will give you a 5% discount off any published fare; 10% off full coach fares. Just travel to Philadelphia on USAir, USAir Express or USAir Shuttle from May 30 - June 9, 1999 and receive your discount!

To obtain the best fares and/or schedule information, call Circle Travel at 1-800-665-3490 in the continental United States between 9:00 a.m.-5:00 p.m. ET, Monday-Friday. Remember to refer to The Voice Foundation's 28th Annual Symposium for all applicable discounts. They will take care of everything!

Arrangements made by other travel agencies must be verified through the USAir Meeting and Convention Reservation Staff at 1-800-334-8644. Refer to Gold File Number 79170999.