



**Gender equality: Building the international network of women in voice research**

June 5<sup>th</sup> 2013

-Sponsored by-

The Division of Speech Pathology

Cincinnati Children's Hospital Medical Center

## **COURSE DESCRIPTION**

In this workshop, we want to start up an international network of women in voice research. In this first meeting we will brainstorm and discuss the structure, goals as well as opportunities with participation. Following steps and activities will be determined to initiate the network.

Every woman working in voice research is welcome to participate in our workshop to enhance the discussion and to shape the network.

## **LEARNER OUTCOMES**

Upon completion of this seminar, the participants will be able to:

- Describe the international network of women in voice research
- Discuss structure and goals of the international network of women in voice research
- Explain future activities within the network

## **ABOUT THE PRESENTERS**

Anke Ziethe is working as an SLP and research assistant at the department of Phoniatics in Pediatric Audiology at the University Hospital of Erlangen, Bavaria, Germany. Her research focus is feedback mechanisms during phonation and articulation.

Veronika Birk is working as an research assistant at the department of Phoniatics in Pediatric Audiology at the University Hospital of Erlangen, Bavaria, Germany. Her research focus is vocal fold dynamics of synthetic and human larynges.

## **PROGRAM SCHEDULE**

8:15 - 8:30 a.m.	Sign-in
8:30 – 8:45 a.m.	Review of learner outcomes and introduction of the speaker
8:45 – 9:15 a.m.	Presentation of our ideas
9:15 – 9:45 a.m.	Writing out of expectations and ideas
9:45 – 10:00 a.m.	Break
10:00 – 11:00 a.m.	Discussion of expectations and ideas of the participants as well as structure, goals and opportunities of the network

## Course Accreditation:

 <p>APPROVED PROVIDER ASHA CONTINUING EDUCATION AMERICAN SPEECH-LANGUAGE-HEARING ASSOCIATION</p>	<p>Cincinnati Children's Hospital Medical Center 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.</p>
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This program is offered for 0.2 ASHA CEUs (Intermediate level, Professional area)

## Conflict of Interest and Disclosure

All presenters have been provided with, and agreed to the Division of Speech Language Pathology's Continuing Education Conflict of Interest Policy. Disclosure information follows:

Presenter Name Dr. Anke Ziethe

*Financial* — Employed by University Hospital of Erlangen, Bavaria, Germany

*Nonfinancial* — Nothing to disclose.

Presenter Name Veronika Birk

*Financial* — Employed by University Hospital of Erlangen, Bavaria, Germany

*Nonfinancial* — Nothing to disclose



The relationship between vortices, acoustics, and vocal fold vibrations: theory and experimental techniques

June 2, 2013  
June 5, 2013

-Sponsored by-

The Division of Speech Pathology  
Cincinnati Children's Hospital Medical Center

## **COURSE DESCRIPTION**

The course focuses on the methodology for measuring intraglottal velocity fields and intraglottal geometry. The findings will be also discussed and compared to findings in other theoretical, mechanical, and animal models.

## **LEARNER OUTCOMES**

Upon completion of this seminar, the participants will be able to:

- Discuss the fundamentals of the particle imaging velocimetry method
- Describe the mechanism of flow separation between the vocal folds
- Explain the advantages and disadvantages of hot-wire anemometry, particle imaging velocimetry and laser Doppler velocimetry
- Discuss assumptions required to compute intraglottal pressures from velocity fields

## **ABOUT THE PRESENTERS**

### **Sid Khosla**

The director of the University of Cincinnati Health Voice and Swallowing Center and the UC Laryngeal Biomechanics Lab. He divides his time between an active laryngology practice and research on laryngeal aerodynamics funded by his NIH R01 grant.

### **Martin Rothenberg**

Dr. Martin Rothenberg, president of Glottal Enterprises, is Professor Emeritus of Electrical and Computer Engineering at Syracuse University, and he directed the Speech Research Laboratory there from 1966 to 1992. This laboratory specialized in research on the human voice and in the development of non-invasive techniques for the measurement of vocal function during speech and singing. Glottal Enterprises was formed in 1981 in order to supply to other laboratories the equipment developed at the Syracuse laboratory.

### **Liran Oren**

Assistant Professor in Otolaryngology – Head & Neck Surgery. His undergraduate major is in bioengineering, and his PhD is in aerospace engineering. His PhD thesis was on the flow-structure relationships in a synthetic jet and in the canine larynx.

## **PROGRAM SCHEDULE**

Sunday, June 2, 2013

- |                  |   |
|------------------|---|
| 8:15 - 8:30 a.m. | Sign-in   |
| 8:30 – 9:00 a.m. | Review of learner outcomes and introduction of the speakers |

9:00 – 10 a.m.	Current methodology for measuring intraglottal velocity fields and intraglottal geometry
10:00 – 10:15 a.m.	Break
10:15 – 10:45 a.m.	Compare findings in other theoretical, mechanical, and animal models
10:45 – 11:00 a.m.	Questions and group discussion

### Wednesday, June 5, 2013

11:15 – 11:30 a.m.	Sign-in
11:30 – 12:00 p.m.	Review of learner outcomes and introduction of the speakers
12:00 – 1:00 pm	Current methodology for measuring intraglottal velocity fields and intraglottal geometry
1:00 – 1:15 p.m.	Break
1:15 – 1:45 p.m.	Compare findings in other theoretical, mechanical, and animal models
1:45 – 2:00 p.m.	Questions and group discussion

## GENERAL INFORMATION

### Course Accreditation:



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This program is offered for 0.2 ASHA CEUs (Intermediate level, professional area)

### **Conflict of Interest and Disclosure**

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Presenter Name: **Sid Khosla**

*Financial* — Employed by University of Cincinnati

*Nonfinancial* — Nothing to disclose.

Presenter Name : **Martin Rothenberg**

*Financial* — Employed by Glottal Enterprises

*Nonfinancial* — Nothing to disclose

Presenter Name **Liran Oren**

*Financial* — Employed by University of Cincinnati

*Nonfinancial* — Nothing to disclose



## Voice and speech: How voice affects intelligibility

June 2, 2013

11:15 am – 2:30 pm

or

2:45 pm – 5:30 pm

-Sponsored by-

The Division of Speech Pathology

Cincinnati Children's Hospital Medical Center

## **COURSE DESCRIPTION**

In this workshop, students will explore the effect of different voice qualities and voice pathologies on intelligibility to listeners under real-life conditions such as background noise, hearing impairment, automatic speech recognition, and telephone transmission.

## **LEARNER OUTCOMES**

Upon completion of this seminar, the participants will be able to:

- Discuss how diagnosis and therapy outcomes vis a vis intelligibility might be improved
- Describe the current state of knowledge in clinical voice research regarding intelligibility decrements resulting from voice disorders, including the structure of clinical measures and scientific experiments on intelligibility
- Explain why voice disorders might affect intelligibility to listeners under normally occurring conditions of daily life
- Recognize factors that might affect the intelligibility of voices with particular characteristics

## **ABOUT THE PRESENTER**

Suzanne Boyce, Ph.D., CCC-SLP has an undergraduate degree from Harvard University, a Ph.D. in Linguistics from Yale University and a Certificate of Advanced Study from Boston University in Speech-Language Pathology. She received training in speech acoustics at the Massachusetts Institute of Technology and in the College of Engineering at Boston University. She is a professor in the department of Communication Sciences and Disorders at the University of Cincinnati and directs research at the dept. clinic in ultrasound biofeedback therapy for articulation disorders. For the last seven years, she has been working on methods of detecting small changes in the acoustic signal that reduce or enhance intelligibility to listeners, especially in noisy environments. More recently, she has been collaborating with colleagues to quantify ways in which voice disorders may affect information in the acoustic signal that listeners rely on to understand what was said.

## **PROGRAM SCHEDULE**

**Sunday, June 2, 2013**

11:15 – 11:30 a.m.	Sign-in
11:30 – 11:45 p.m.	Review of learner outcomes and introduction of the speaker
11:45 --12:15 p.m.	Review of literature and current practice: Intelligibility as assessed for normal and disordered voices in the voice clinic and in other fields
12:15 – 12:45	Participants will take part in a standard listener intelligibility experiment in which they will have the opportunity to hear sentences produced by persons with various voice disorders, presented with and without added noise.

12:45 --1:30 p.m	Lunch Break
1:30 p.m- 2:15 p.m.	Participants will pool results from listener intelligibility experiment and evaluate results with regard to current clinical assumptions and practice
2:15 – 2:30 p.m.	Questions and group discussion

### Sunday, June 2, 2013

2:45 – 3:00 p.m.	Sign-in
3:00 – 3:15 p.m.	Review of learner outcomes and introduction of the speaker
3:15 --3:45 p.m.	Review of literature and current practice: Intelligibility as assessed for normal and disordered voices in the voice clinic and in other fields
3:45 --4:15 p.m	Participants will take part in a standard listener intelligibility experiment in which they will have the opportunity to hear sentences produced by persons with various voice disorders, presented with and without added noise.
4:15 – 4:30pm	Coffee Break
4:30 -- 5:15 p.m.	Participants will pool results from listener intelligibility experiment and evaluate results with regard to current clinical assumptions and practice
5:15 – 5:30 p.m.	Questions and group discussion

### Course Accreditation:



APPROVED PROVIDER  
ASHA  
CONTINUING  
EDUCATION  
AMERICAN SPEECH-LANGUAGE-HEARING ASSOCIATION

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This program is offered for 0.2 ASHA CEUs (Intermediate level, Professional area)

**Conflict of Interest and Disclosure**

All presenters have been provided with, and agreed to the Division of Speech Language Pathology's Continuing Education Conflict of Interest Policy. Disclosure information follows:

Presenter Name: **Suzanne Boyce**

*Financial* — Employed by University of Cincinnati

*Nonfinancial* — Nothing to disclose.



## Voice disorders and clinical voice assessment

June 2, 2013

-Sponsored by-

The Division of Speech Pathology

Cincinnati Children's Hospital Medical Center

## **COURSE DESCRIPTION**

Voice disorders can be classified into four main categories: structural/neoplastic, neuromuscular, inflammatory and muscle tension imbalance. This workshop will focus on instrumental assessment to determine which of the four conditions are present in patients with vocal complaints, which are primary and which are secondary and which are actually contributing to the vocal disturbance. Methods of assessment for a comprehensive clinical evaluation will be presented. This will include non-instrumental as well as objective acoustic and aerodynamic measures. Presentation of cases will be discussed.

## **LEARNER OUTCOMES**

Upon completion of this seminar, the participants will be able to:

- Discuss vocal complaints of individuals with voice disorders.
- Describe the main categories of voice disorders.
- Explain non-instrumental, acoustic and aerodynamic measures for vocal assessment.
- Recognize similarities of vocal complaints and need for visual assessment.

## **ABOUT THE PRESENTER**

### **Bernice Klaben**

Bernice K. Klaben, Ph.D. is a licensed speech-language pathologist and associate professor for the University of Cincinnati Medical Center, Department of Otolaryngology-Head and Neck Surgery and Associate Director for the UC Voice and Swallowing Center in that department. She is an Adjunct Instructor in the College of Allied Health Sciences in the Communication Science Department. Her specialty is in the areas of voice, dysphagia and head and neck cancer at the UC Voice and Swallowing Center providing full assessments and rehabilitation.

## **PROGRAM SCHEDULE**

Sunday, June 2, 2013

8:15– 8:30 a.m.	Sign-in
8:30 – 8:45 a.m.	Review of learner outcomes and introduction of the speaker
8:45 – 9:00	Vocal complaints of individuals with voice disorders
9:00 - 9:15	Classification of voice disorders
9:15 – 9:45	Instrumental assessment
9:45 – 10:00	Coffee Break

10:00- 10:45	Cases
10:45 – 11:00 p.m.	Questions and group discussion

**Sunday, June 2, 2013**

11:15 – 11:30 a.m.	Sign-in
11:30 – 11:45 a.m.	Review of learner outcomes and introduction of the speaker
11:45 – 12:00 a.m.	Vocal complaints of individuals with voice disorders
12:00 - 12:15	Classification of voice disorders
12:15 – 12:45	Instrumental assessment
12:45- 1:30	Lunch Break
1:30 – 2:15	Cases
2:15 – 2:30 p.m.	Questions and group discussion

**Course Accreditation:**



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This program is offered for 0.2 ASHA CEUs (Intermediate level, Professional area)

**Conflict of Interest and Disclosure**

All presenters have been provided with, and agreed to the Division of Speech Language Pathology's Continuing Education Conflict of Interest Policy. Disclosure information follows:

Presenter Name: **Bernice Klaben**

*Financial* — Employed by University of Cincinnati Otolaryngology-Head and Neck Surgery; UC Voice and Swallowing Center  
*Nonfinancial* — Nothing to disclose.



Contemporary Care of the Pediatric Voice: Perspectives from  
Laryngology and Speech Pathology

June 5, 2013

-Sponsored by-

The Division of Speech Pathology  
Cincinnati Children's Hospital Medical Center

## **COURSE DESCRIPTION**

This workshop will provide current advances in the assessment and care of pediatric voice disorders. There will be a specific emphasis on medical-surgical, acoustic, aerodynamic, handicapping and perceptual instruments and how they are informing current care. Participants will be involved in the interpretation of perceptual assessments and endoscopic (stroboscopic and high speed) imaging for classic and complex cases. There will also be a didactic discussion of how newer technologies can aid medical/surgical and behavioral interventions.

## **LEARNER OUTCOMES**

Upon completion of this seminar, the participants will be able to:

- Discuss how various voice assessments are informing current care
- Explain and be able to interpret perceptual assessments and endoscopies
- Recognize instances where newer technologies may aid in medical/surgical and behavioral interventions

## **ABOUT THE PRESENTERS**

### **Alessandro de Alarcon**

Dr. Alessandro de Alarcon is the Director of the Center for Pediatric Voice Disorders, at Cincinnati Children's Hospital Medical Center. Clinical and research interest includes: assessment, treatment and voice outcomes for the pediatric voice and airway population.

### **Lisa Kelchner**

Lisa N. Kelchner, PhD CCC BRS-S is an Associate Professor and Director of Graduate Studies in the Department of Communication Sciences and Disorders at the University of Cincinnati. Ongoing research includes projects in voice, swallowing and complex airway. Affiliations include Cincinnati Children's Hospital Medical Center and the Cincinnati VA.

### **Barbara Weinrich**

Barbara Weinrich, Ph.D, Professor @ Miami University, Oxford, Ohio / Research Associate @ Cincinnati Children's Hospital, Cincinnati, Ohio (Her research primarily focuses on the assessment and treatment of voice disorders in adults and children.)

### **Susan Brehm**

Susan Baker Brehm, Ph.D., Associate Professor @ Miami University, Oxford, Ohio / Research Associate @ Cincinnati Children's Hospital, Cincinnati, Ohio (Her research primarily focuses on pediatric voice and upper airway disorders.)

## **PROGRAM SCHEDULE**

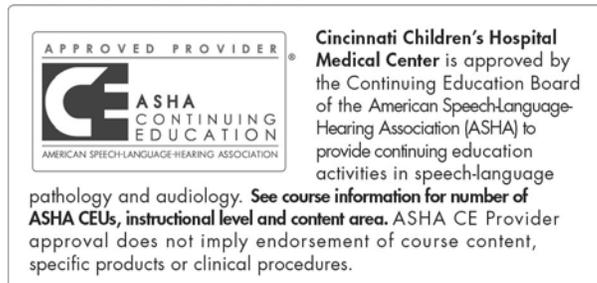
**Wednesday, June 5, 2013**

8:15– 8:30 a.m.	Sign-in
8:30 – 8:45	Review of learner outcomes and introduction of the speaker
8:45-9:15	Medical-surgical and acoustic/aerodynamic instrumentation
9:15- 9:45	Perceptual and handicapping assessments
9:45 – 10:00	Coffee Break
10:00- 10:15	Interpretation of perceptual assessments and endoscopic
10:15 -10:45	Discussion of how newer technologies can aid in intervention
10:45 – 11:00	Questions and group discussion

**Wednesday, June, 5 2013**

11:15 – 11:30 a.m.	Sign-in
11:30 – 11:45 a.m.	Review of learner outcomes and introduction of the speaker
11:45 – 12:15	Medical-surgical and acoustic/aerodynamic instrumentation
12:15 – 12:45	Perceptual and handicapping assessments
12:45 – 1:30	Lunch Break
1:30 – 1:45	Interpretation of perceptual assessments and endoscopic
1:45 – 2:15	Discussion of how newer technologies can aid in intervention
2:15 – 2:30	Questions and group discussion

## Course Accreditation:



This program is offered for 0.2 ASHA CEUs (Intermediate level, Professional area)

## Conflict of Interest and Disclosure

All presenters have been provided with, and agreed to the Division of Speech Language Pathology's Continuing Education Conflict of Interest Policy. Disclosure information follows:

Presenter Name: Alessandro de Alarcon

*Financial* — Employed by Cincinnati Children's Hospital Medical Center

*Nonfinancial* — Nothing to disclose.

Presenter Name: .Lisa Kelchner

*Financial* — Employed by University of Cincinnati and Cincinnati Children's Hospital Medical Center

*Nonfinancial* — Nothing to disclose.

Presenter Name: Barbara Weinrich

*Financial* — Employed by Miami University and Cincinnati and Cincinnati Children's Hospital Medical Center

*Nonfinancial* — Nothing to disclose.

Presenter Name: and Susan Brehm

*Financial* — Employed by Miami University and Cincinnati and Cincinnati Children's Hospital Medical Center

*Nonfinancial* — Nothing to disclose.



## Laryngeal imaging and quantitative voice assessment

June 2, 2013

Or

June 5, 2013

-Sponsored by-

The Division of Speech Pathology  
Cincinnati Children's Hospital Medical Center

## **COURSE DESCRIPTION**

Various laryngeal imaging techniques such as high-speed videoendoscopy (HSV), electroglottography, and stroboscopy will be discussed. Advances HSV are making it possible to investigate critical relationships between vocal fold physiology and acoustic voice production in human subjects. These quantitative voice assessment related to a variety of these imaging techniques will be discussed.

## **LEARNER OUTCOMES**

Upon completion of this seminar, the participants will be able to:

- Discuss how stroboscopy works
- Describe stroboscopy vs high-speed videoendoscopy
- Explain the evolution of imaging technologies

## **ABOUT THE PRESENTERS**

### **Dimitar Deliyski**

Dr. Deliyski currently holds a faculty appointment as tenured Associate Professor of Otolaryngology-Head and Neck Surgery in the University of Cincinnati, College of Medicine and is an Associate Professor– Affiliate with the Department of Communication Sciences and Disorders at the University of Cincinnati. Dr. Deliyski has substantial experience in laryngeal imaging, both in the development, and the clinical implementation of imaging-based voice assessment measures.

### **Robert Orlikoff**

Dr. Orlikoff is an internationally recognized scientist whose work focuses on the acoustic and physiologic characteristics of normal and abnormal voice production. He has served as chair of the Department of Speech Pathology and Audiology since joining the faculty at West Virginia University in 2008. Following his professional studies at Columbia University in New York, Dr. Orlikoff was a tenured faculty member in the School of Audiology and Speech-Language Pathology at the University of Memphis and the Communication Sciences Program at Hunter College of the City University of New York.

### **Stephanie Zacharias**

Dr. Zacharias is a post-doctoral trainee of Dr. Dimitar Deliyski at Cincinnati Children's Hospital Medical Center. Clinical and research interests include: assessment, treatment and voice outcomes of pediatric voice disorders. Currently she is working on efficacy of high-speed video endoscopy, and feasibility of a voice therapy Telehealth model.

### **Daryush Mehta**

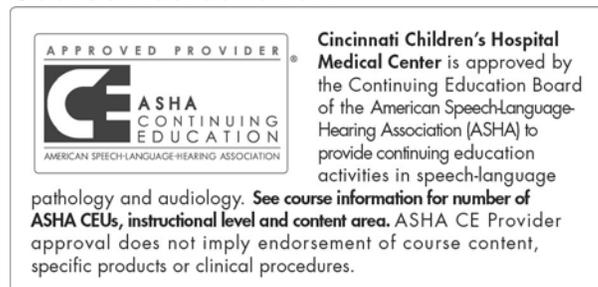
Dr. Mehta's research interests include clinical analysis of normal and disordered voice production with particular emphasis on advanced statistical signal processing algorithms and ambulatory monitoring of daily voice use. His work bridges the areas of statistical signal processing at Harvard and clinical voice assessment at the MGH Voice Center.

## PROGRAM SCHEDULE

June 2 & 5, 2013

2:45– 3:00 p.m.	Sign-in
3:00 – 3:15 p.m.	Review of learner outcomes and introduction of the speaker
3:15- 4:15 p.m.	Discussion of imaging techniques including: stroboscopy, high-speed videoendoscopy, electroglottography
4:15-4:30	Coffee Break
4:30- 5:15p.m	Discussion of quantitative assessment
5:15 – 5:30 p.m.	Questions and group discussion

### Course Accreditation:



This program is offered for 0.2 ASHA CEUs (Intermediate level, Professional area)

### Conflict of Interest and Disclosure

All presenters have been provided with, and agreed to the Division of Speech Language Pathology's Continuing Education Conflict of Interest Policy. Disclosure information follows:

Presenter Name: Dimitar Delijski

*Financial* — Employed by Cincinnati Children's Hospital Medical Center and University of Cincinnati

*Nonfinancial* — Nothing to disclose.

Presenter Name : Stephanie Zacharias

*Financial* — Employed by Cincinnati Children's Hospital Medical Center

*Nonfinancial* — Nothing to disclose

Presenter Name : Robert Orlikoff

*Financial* — Employed by West Virginia University

*Nonfinancial* — Nothing to disclose

Presenter Name: Daryush Mehta

*Financial* — Employed by Massachusetts General Hospital and MGH, Harvard Medical School

*Nonfinancial* — Nothing to disclose



The *Call* and the *Belt*;  
Two approaches to producing loud voice for the stage

June 5, 2013

-Sponsored by-

The Division of Speech Pathology  
Cincinnati Children's Hospital Medical Center

## **COURSE DESCRIPTION**

In this workshop, Drs. LeBorgne and van Leer will discuss two approaches to healthy loud voice use: the Belt, a singing approach typically used in commercial music, and the Call, an approach to projected theatre voice developed by Arthur Lessac. Similarities and differences between the two approaches will be discussed. Participants will come away with an elementary understanding and ability to produce both.

## **LEARNER OUTCOMES**

Upon completion of this seminar, the participants will be able to:

- 1) describe the artistic styles demanding the Belt and Call voice techniques
- 2) demonstrate basic versions of each technique on sustained phonation and single syllables
- 3) identify 2 key similarities and differences of the approaches.

## **ABOUT THE PRESENTERS**

### **Wendy LeBorgne**

Dr. LeBorgne is the voice pathologist, singing voice specialist, and director of the Blaine Block Institute for Voice Analysis and Rehabilitation (Dayton, OH), and The Professional Voice Center of Greater Cincinnati (Cincinnati, OH). Additionally, she holds adjunct professor positions at Cincinnati College-Conservatory of Music as a Voice Consultant and in the College of Allied Health. Dr. LeBorgne holds a B.F.A. in Musical Theater from Shenandoah Conservatory and earned both her masters and doctoral degrees from the University of Cincinnati in Communication Sciences and Disorders with a specialty in voice disorders. Dr. LeBorgne actively presents nationally and internationally on the professional performing voice.

### **Eva van Leer**

Dr. van Leer is an assistant professor of Otolaryngology at the University of Cincinnati College of Medicine and Co-Director of their Professional and Performing Voice center. In addition to her PhD from the University of Wisconsin-Madison, she holds a Master's of Fine Arts (MFA) in Theatre Voice Training. Together with her colleague Sid Khosla, MD she is the formal voice care provider for the Cincinnati Opera.

## **PROGRAM SCHEDULE**

**Wednesday June 5, 2013**

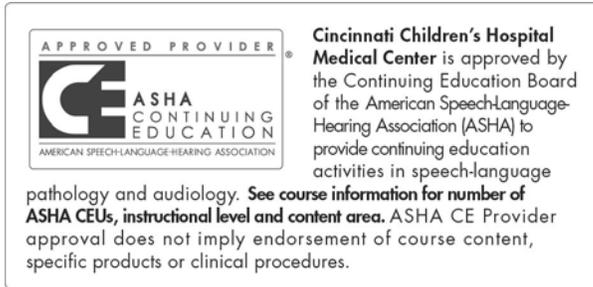
11:15– 11:30 a.m.	Sign-in
11:30 – 11:45 a.m.	Review of learner outcomes and introduction of the speaker
11:45 – 12:15	The <i>Belt</i> : Background, styles, production technique, comparative difference with classical/operatic approaches

12:15- 12:45	Practice and group work.
12:45- 1:30	Lunch Break
1:30 – 1:45	The <i>Call</i>
1:45- 2:00	The Lessac approach to (projected) voice production: Principles, production technique, difference with Linklater approach to theatre voice.
2:00 - 2:15	Warmup; y-buzz production, the <i>Call</i> and <i>Belt</i> : Similarities and differences
2:15 – 2:30 p.m.	Questions and group discussion

**Wednesday June 5, 2013**

2:45– 3:00 p.m.	Sign-in
3:00 – 3:15 p.m.	Review of learner outcomes and introduction of the speaker
3:15 – 3:45	The <i>Belt</i> : Background, styles, production technique, comparative difference with classical/operatic approaches
3:45 – 4:15	Practice and group work.
4:15 – 4:30	Coffee Break
4:30- 4:45	The <i>Call</i>
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5:15 – 5:30 p.m.	Questions and group discussion

**Course Accreditation:**



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### **Conflict of Interest and Disclosure**

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Presenter Name: Wendy LeBorgne

*Financial* — Employed by Southwest Ohio ENT specialists and the University of Cincinnati

*Nonfinancial* — Nothing to disclose.

Presenter Name : Eva van Leer

*Financial* — Employed by assistant professor at UC COM Dept of Otolaryngology.

*Nonfinancial* — Nothing to disclose