### **Online Educational Opportunities for Practicing Audiologists: An International Perspective**

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## **Online Educational Opportunities for Practicing Audiologists: An International Perspective**



#### So Many Ears and So Few Audiologists

congrate/quech pathologies would ared no use about 20,000 peristans per day to use about 20,000 peristans per day to use about 20,000 peristans per day to use the peristans to those who med them the most.

In a rather long list of countries, many in Africa, no sudeledgeins are resources to to greatly expound a reasonable in betterfield, degrees, and manage children and adults with unacceptable situation?

What a steps can see take to address this unacceptable situation?

Pure possible egiones one to mind immediately.

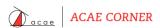
Another option is the use of automated technology to identify harring loss and facilitate its diagnosis in children and admit with the chemication of a highly motivated to enter a healthcare profusion.

Another option is the use of automated the chemical perists of the control of the contro

The Hearing Journal Volume 67 (3) March 2014

## Online Educational Opportunities for Practicing Audiologists: An International Perspective

Audiology Today, 27 (3), May/June, 2015



## Thinking Globally About Audiology Education

By James W. Hall III

This article is the first of a two-part series on global education in audiology. A second article will review general strategies and specific steps for enhancing the quantity and quality of audiology education worldwide.

ore than 90 percent of the world population has little or no access to hearing health care. In a rather long list of countries, many in Africa, no audiologists are available to identify, diagnose, and manage children and adults with hearing loss and related disorders. The creation of individual politics to enhance the chance of success against possibly difficult odds. This approach has largely led to the establishment and development of the profession of audiology in countries as diverse and distant as India, South Africa, and, more recently, South Korea.

Audiology educational models and

Audiology education and clinical credentialing are undergoing change in the United Kingdom with the implementation of a plan titled "Modernising Scientific Careers" (www baaudiology org). Audiologists now practicing, teaching, or conducting research in the United Kingdom hold various academic credentials,

## Online Educational Opportunities for Practicing Audiologists: An International Perspective

Audiology Today, 27 (4), July/August, 2015



# Expanding and Enhancing Audiology Education Globally

By James W Hall III

his article, the second of a two-part series about global education in audiology, addresses emerging strategies and efforts to expand the availability and enhance the quality of audiology education around the world.

entorics to expans the availability and enhance the quality of audiology education around the world. An article in the preceding issue of Audiolgy Today titled "Thinking Globally About Audiology Education" reviewed existing academic models has developed a five-year bachelor's degree audiology program. Dr. Kim M. Smith Abouchacra (McStGRauh edu).

James W. Hall III, PhD, provides instruction in China to otolaryngologists specializing in audiology who attended a worksho organized by Giri Sundar. PhD, of Salus University and Oi Liang. Au

medical audiology sciences bachelor's degree program at American

lb) has taken a lead role in creation of an interdisciplinary

program at National University. In Billy's words,

## **Online Educational Opportunities for Practicing Audiologists: An International Perspective** 90% of World Population is Without Access to Hearing Care

#### WHO estimated in 2008:

- 288 million people have hearing loss > 40 dB HL
  - 4.3 % of global population
- 664 million people have hearing loss >25 dB HL
  - 9.9 % of global population
- "Half of all cases of hearing are avoidable through primary prevention."
- "Current production of hearing aids meets less than 10% of global need."
- "The majority of people with disabling hearing loss live in low- and middle-income countries.



## **Online Educational Opportunities for Practicing Audiologists: An International Perspective:** Review of International Audiology Education (2008)

#### informa

**Original Article** 

International Journal of Audiology 2008; 47:647-664

H. Goulios R.B. Patuzzi

School of Biomedical, Biomolecular, and Chemical Sciences, University of Western Australia, Perth, Australia

#### **Key Words**

International Audiology

Profession

Education

World hearing health care resources

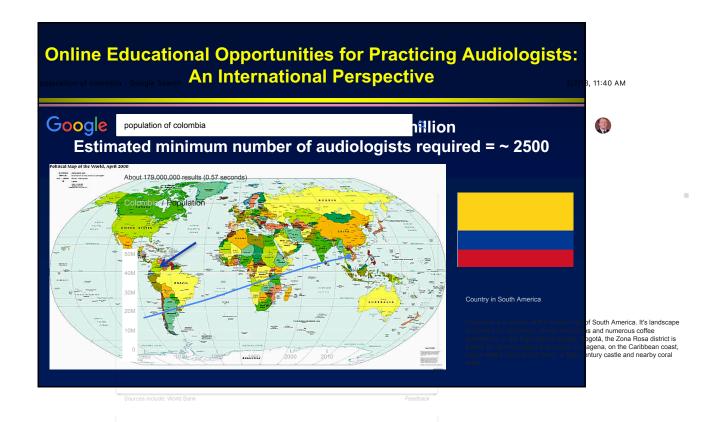
### Audiology education and practice from an international perspective

#### Abstract

This paper describes the international education and practice of audiology with the broader aim of proposing possible cost-effective and sustainable education models to address the current situation. Major audiology organizations worldwide were surveyed from February 2005 to May 2007, and organizations from 62 countries (78% of the world population) returned a completed survey. Overall, the results suggested a wide range of profes-sionals providing hearing health care, and 86% of

#### Sumario

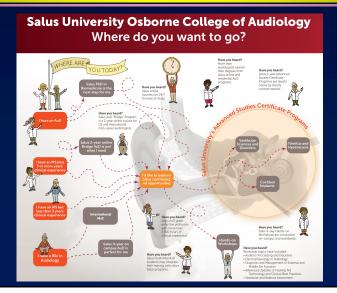
Este artículo describe la educación internacional y la práctica de la audiología con un propósito más amplio de proponer modelos educativos posibles en costo/beneficio y sostenibles para analizar la situación actual. De febrero 2005 a mayo 2007 se encuestaron organizaciones audiológicas importantes y organizaciones de 62 países (78% de la población mundial), regresaron la encuesta respondida completamente. En general los resultados sugieren que existe un amplio rango de profesionales que ofrecen



# Salus University Osborne College of Audiology Dedicated to Online International Audiology Education

- □ Salus University (legacy since 1919) is based in Elkins Park, Pennsylvania (near Philadelphia, PA).
- Salus University is composed of four accredited colleges for heath care professionals and educators:
  - Pennsylvania College of Optometry (PCO)
  - College of Education and Rehabilitation (CER)
  - George S. Osborne College of Audiology (OCA)
  - College of Health Sciences (CHS)
- Salus University offers the following earned degrees:
  - •AuD, BSc, MEd, MMS, MS, MSc, MSOT, OD, OTD, PhD

## Online Educational Opportunities for Practicing Audiologists: An International Perspective (Flyers Available Here)



# Salus University Osborne College of Audiology Online International Audiology Education

- Advanced Studies Certificate Programs
  - http://www.salus.edu/audiology/index.html
  - Advanced Studies: Cochlear Implants
  - Advanced Studies: Tinnitus & Hyperacusis
  - Advanced Studies: Vestibular Sciences & Disorders
- Masters of Science (MSc) in Advanced Clinical Audiology
  - Online degree with onsite workshops
  - For bachelors level audiologists
- International AuD-Bridge Degree Program for Masters level audiologists who wish to earn a Doctor of Audiology degree
  - http://www.salus.edu/audiology\_bridge/ind

# Salus University Osborne College of Audiology Online International Audiology Education World Class Faculty

Prudence Allen Radhika Aravamudhan

Ali Danesh Brian Fligor

James Hall III Robert Harrison

Anne Hogan Cheryl DeConde Johnson

Paul Kileny George Lindley
Sherman Lord Ryan McCreery

Lisa Lucks Mendel Thierry Morlet
Bre Myers Tracy Offerdahl

Martin Pienkowski Donald Schum Christopher Schweitzer Richard Tyler

Jace Wolfe

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# Salus University Osborne College of Audiology SALUS Addition International Audiology Education

## ADVANCED STUDIES CERTIFICATE PROGRAMS

Doctor of Audiology On-Campus Program

Doctor of Audiology Online Bridge Program

Master of Science in Clinical Audiology

#### Advanced Studies Certificate

Cochlear Implants Program

Tinnitus and Hyperacusis Program

Vestibular Sciences and

Disorders

Application Process

Certificate Program Course

Summer Workshops

The Advanced Studies certificate programs are designed to expand the knowledge, improve the clinical skills, and promote general expertise in the delivery of audiology services.



The courses of study will bring the professional up to date on the state of the science in diagnosis and treatment of

## Advanced Studies Certificate Programs

- 3 certificate programs
  - Cochlear implants
    - Tinnitus/hyperacusis
    - Vestibular
- ☐ 6 to 8 online courses
- 9 to 12 months of study
- 10 to 12 semester credits
- Optional 4-day workshops
- Prerequisite: Degree in Audiology or a Related Field

http://www.colur.odu/Colleges/Judiologu/Advanced-Studios-Cartiflecta-Brogsom-org

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## **Formal Courework and Certifiation for Assessment & Audiologic Management** of Tinnitus & Hyperacusis



#### Advanced Studies in Tinnitus and Hyperacusis-

The online Advanced Studies in Tinnitus and Hyperacusis Certificate Programs is for working audiologists or professionals in a related field, with degrees that is recognized by their country for the clinical practice of audiology (or the related field) and are interested in specializing in this specific area of study. The program of study is six courses, each course being six w duration, for a total of 10- academic (semester) credits over 40 weeks. The Courses are:

- 1. Neuroscience of Tinnitus and Hyperacusis (1.5 Semester credits) Faculty: Martin Pienkowski, PhD
- Assessment Techniques in Tinnitus and Hyperacusis
   (1.5 Semester credits) Faculty: Rich Tyler, PhD
- 3. Tinnitus and Hyperacusis: Rehabilitation and Management (2.0 Semester credits) Faculty: TBD
- 4. Professional Issues: Setting Up a Tinnitus and Hyperacusis Clinic (2.0 Semester credits) Faculty: Jay Hall, PhD
- 5. Tinnitus and Hyperacusis: Controversies, Pitfalls and Prospects for Progress (2.0 Semester credits) Faculty: Anthony Cacace, PhD & Martin Pienkowski, PhD
- 6. Public Health and Medical Issues in the Management of Tinnitus and Hyperacusis (1.5 Semester credits) Faculty: Jay W Hall, PhD

## **Salus University Osborne College of Audiology** udiology Education

Academies S Admissions Life News About Salus Health >

#### **DOCTOR OF AUDIOLOGY ONLINE BRIDGE PROGRAM**

Doctor of Audiology On-Campus Program

#### Doctor of Audiology Online **Bridge Program**

Application Process

Frequently Asked Questions

Curriculum

Master of Science in Clinical

Advanced Studies Certificate Programs

Summer Workshops



The Doctor of Audiology Online Bridge Program offered from Salus University is a program that offers online education for working audiologists with a master's degree or medical degree in audiology.

### **Doctor of Audiology (AuD)** "Bridge" Program

- 28 didactic online courses
- 2-4 years of study
- 45 semester credits
- Two required 4-day workshops
- ☐ Prerequisite: Masters degree from a recognized university + 3 Years clinical experience



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8360 Old York Road Elkins Park, PA 19027-1516 www.salus.edu 1 !7-1516

2. Computer Applications and Instrumentation in Audiology

(1.5 semester credits)

Faculty: Sherman G. Lord, AuD/ Manikandan Rajappa M.S.

3. Sound Transmission into the Cochlea

(1.5 semester credits)

Faculty: Robert V. Harrison PhD, DSc

4. Evidence-Based Audiology: Transitioning from Research to Clinic and Adoption of Best Practices in Audiology

(1.5 semester credits)

Faculty: Radhika Aravamudhan, PhD

# Online Educational Opportunities for Practicing Audiologists: An International Perspective International AuD Bridge Program

#### 5. Pediatric Audiology: Current Trends in Behavioral Assessment

(1.5 semester credits)

Faculty: Ryan McCreery, PhD

6. Early Hearing Detection in Infants

(1.5 semester credits)

Faculty: James Hall, 111, PhD

7. Genetics and Hearing Loss

(1.5 semester credits)

Faculty: Ali Danesh, PhD

8. Topics in Pediatric Hearing Assistive Technology

(1.5 semester credits)

Faculty: Ryan McCreery, PhD

9. Advanced Issues in Otoacoustic Emissions

(1.5 semester credits)

Faculty: Thierry Morlet, PhD

#### 10. Auditory Processing Disorders: Behavioral Issues

(1.5 semester credits) Faculty: James Hall, PhD

#### 11. Auditory Evoked Potentials in Pediatric and Adult ABR

(1.5 semester credits) Faculty: Jace Wolfe, PhD

#### 12. Auditory Processing Disorders: Electrophysiological Assessment

(1.5 semester credits) Faculty: James Hall, PhD

#### 13. Auditory Neuropathy Spectrum Disorder

(1.5 semester credits)
Faculty: Thierry Morlet PhD

#### 14. Cochlear Implants and other Implantable Devices

(1.5 semester credits) Faculty: Jace Wolfe, PhD

#### 15. Advanced Auditory Biology 2: Vestibular and Balance System

(1.5 semester credits) Faculty: Bre Myers, PhD

#### 16. Assessment and Rehabilitation of Vestibular and Balance System

(1.5 semester credits) Faculty: Anne Hogan, PhD

## Online Educational Opportunities for Practicing Audiologists: An International Perspective New Online Master's Degree Program



#### International MSc in Clinical Audiology

Salus University Osborne College of Audiology

Salus University Osborne College of Audiology (SU OCA) is offering an International MSc program in Clinical Audiology. The Master of Science degree in Clinical Audiology is a post-professional degree, intended for working audiologists who have completed a four-year, undergraduate degree in audiology (or its equivalent) and have been providing full-time clinical audiology services for no less than two years. The MSc program of study is both competency-and skills-based, intended to help practicing audiologists gain mastery over specialized areas of practice.

Students are required to complete all the mandatory courses, including three Clinical Skills training practicum, and choose two Fellowship Programs to complete all the requirements for the International MSc in Clinical Audiology Program. Each Fellowship Program is composed of didactic courses in the specialty area of study, two Hands-On Workshops and 150 clinical hours supervised by a preceptor approved by the international partner university and Salus University OCA

#### MSc in CLINICAL AUDIOLOGY COURSE ANALYSES

| Required Courses  | Semester<br>Credits    |
|---|------------------------|
| Online Didactic Courses for Core Curriculum in Clinical Audiology (7 Course Modules, each module worth 3 credits) | 21                     |
| Face-Face Clinical Skills Training at the Elkins Park Campus or in Partner Country                                | 3                      |
| Required Studies Total Credits  | 24 Semester<br>Credits |
| Required Fellowship for Cohort 1  |                        |
| Fellowship in in Cochlear Implants  | 15                     |
| Fellowship in Vestibular Sciences and Disorders   | 15                     |
| Total Credits (2 Fellowships)   | 30                     |
| MSc in CLINICAL AUDIOLOGY TOTAL CREDITS   | 54 Credits             |

#### **MSc in Clinical Audiology Program**

- •14 Core Curriculum didactic online courses
- •2-Fellowships ( 6 didactic courses in each Fellowship, 2 Hands-On Workshops & 150 hours of Clinical Training)
- •2 to 4 years of study
- •54 semester credits
- Four required 4-day workshops
- •Three days clinical training skills in audiological assessments
- •Prerequisite: Bachelors degree from a recognized University + 2 Years clinical experience

#### INTERNATIONAL MSc in CLINICAL AUDIOLOGY: CORE CURRICULUM

- 1. Module on Auditory Systems: 3.0 Semester Credits
  - I. Auditory Physiology & Psychoacoustics

Robert V Harrison, PhD, DSc

II. Auditory System Disorders and Diseases

James W. Hall III, PhD

- 2. Module on Basic Clinical Assessments: 3.0 Semester Credits
  - I. Diagnostic Clinical Procedures & Clinical Skills\*

James W. Hall III, PhD

II. Electro-acoustic Measurements in Audiology & Clinical Skills\*

James W. Hall III, PhD

- 3. Module on Advanced Clinical Assessments: 3.0 Semester Credits
  - I. Electro-physiologic Measurements in Audiology & Clinical Skills\*

    Jace Wolfe, PhD
  - II. Introduction to Vestibular Function & Clinical skills training using computer simulation

Bre Myers, AuD

- 4. Module on Pediatrics: 3.0 Semester Credits
  - I. Pediatric Audiology

Ryan McCreery, PhD

II. Auditory Processing and Disorders

James Hall, PhD/Wayne Wilson, PhD

- 5. Module on Intervention Technologies: 3.0 Semester Credits
  - I. Hearing Technologies & Clinical Skills\*

Jason Galster, PhD

II. Implant Technologies and Sensory Aids & Clinical Skills\*

Karen Gordon, PhD

- 6. Module on Auditory Rehabilitation: 3.0 Semester Credits
  - I. Auditory Rehabilitation

Harvey Abrams, PhD

I. Counseling in Audiology

Kris English, PhD

- 7. Module on Best Practices: 3.0 Semester Credits
  - I. Clinical Decision Making in Audiology

Dave Zapala, PhD

II. Public Health & Humanitarian Audiology

James W. Hall III, PhD

### Online Educational Opportunities for Practicing Audiologists: An International Perspective For More Information Contact: gsundar@salus.edu



Web links to the Program: <a href="http://www.salus.edu/Colleges/Audiology/Master-of-Science-in-Clinical-Audiology.aspx">http://www.salus.edu/Colleges/Audiology/Master-of-Science-in-Clinical-Audiology.aspx</a>

Application Process: <a href="http://www.salus.edu/Colleges/Audiology/Master-of-Science-in-Clinical-Audiology/Application-Process.aspx">http://www.salus.edu/Colleges/Audiology/Master-of-Science-in-Clinical-Audiology/Application-Process.aspx</a>

Curriculum: <a href="http://www.salus.edu/Colleges/Audiology/Master-of-Science-in-Clinical-Audiology/Curriculum.aspx">http://www.salus.edu/Colleges/Audiology/Master-of-Science-in-Clinical-Audiology/Curriculum.aspx</a>

Tuition: http://www.salus.edu/Admissions/Tuition-Financial-Aid/Cost-of-Attendance.aspx

# Facilitator Training: International Hearing Care Technician Certificate American Institute of Balance (www.aicme.com)



Jackie Clark, Ph.D.



James W. Hall, III, Ph.D.

**Spanish Language Instructors** 



James Saunders, M.D., F.A.C.S.



Alexandra Feliz, Au.D.



Abraham Garcia, Au.D.

## International Hearing Care Technician Certificate: Curriculum (www.aicme.com)

#### **Core Curriculum:**

Designed to provide general knowledge and skills required by a hearing care technician who will work under the supervision and direction of a physician, otolaryngologist or audiologist. Successful completion of the core curriculum leads to a Hearing Care Technician Certificate.

#### **Each Course Features:**

A 48 to 60 minutes of instruction through a narrated PowerPoint presentation on a focused topic. Presentations include text, figures, and video demonstrations to enhance the learning experience.

Selected readings and resources, including websites and other internet sources information, are recommended for each topic.

## International Hearing Care Technician Certificate: Courses are Grouped Into One of Three Categories

**Basic hearing courses** cover general knowledge of sound, acoustics, auditory anatomy and physiology.

**Auditory disorders courses** provide a brief overview of disorders and diseases commonly encountered in patient population.

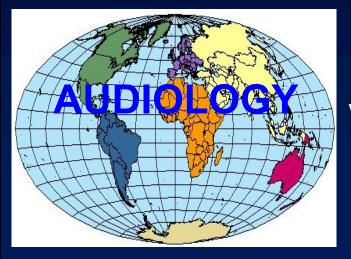
Assessment Techniques category provides information needed in preparation for conducting techniques commonly applied in hearing assessment, such as otoscopic inspection, pure tone hearing screening and threshold assessment, tympanometry, and measurement of otoacoustic emissions.

## International Hearing Care Technician Certificate: Student Performance...Measuring Outcomes

(www.aicme.com)

- Each course concludes with an assessment of learner outcome that includes questions within different domains of learning as defined by revised Bloom's Taxonomy, specifically:
  - ✓ Remembering (formerly knowledge)
  - ✓ Understanding (formerly comprehension)
  - ✓ Applying, analyzing, evaluating, and creating
- ☐ For each course, recommendations and guidelines are offered for acquisition of related clinical and technical skills by technicians enrolled in the core curriculum.

## THANK YOU! QUESTIONS?



jwhall3phd@gmail.com

www.audiologyworld.net