# **IHAC - International Hearing Access Committee**













# Hearing Loops and Telecoils: When will they become obsolete?

The International Hearing Access Committee (IHAC) aims to estimate the time a transition from the existing audio transmission to telecoils via hearing loop (HL) and other assistive listening systems (ALS) to a platform of digital audio streaming direct into hearing aids, will likely take.

Telecoils (TC) are small copper wire coils integrated in most hearing aids (HA), HA accessories and cochlear implants (CI) in use today. The TC is designed to pick up electromagnetic analog signals from telephones and from HL/ALS which are designed to improve communication access for people with hearing loss<sup>1</sup> in venues where distance, reverberation and background noise prevent comprehension.

Telecoils have important advantages for hearing aid and cochlear implant users such as:

- Ease of use by people of all ages.
- Availability in nearly all hearing devices.
- Affordability (no cost to users beyond the price of the hearing aid).
- Energy efficiency (little or no battery drain).
- Universality, any TC can connect to any ALS. No matter their brand of HA or brand of ALS.
- Very low latency, which is important in real-time events.

However, TCs have only 1 channel (no stereo), and are sensitive to electromagnetic interferences.

IHAC recognizes that since 2014 the European Hearing Instrument Manufacturers Association (EHIMA) has taken serious steps to get a hearing aid profile (HAP) as a standard for Bluetooth connectivity.<sup>2</sup> This will ultimately permit direct streaming of high-quality stereo audio signals into HA/CI. EHIMA admits this process is taking longer than expected.

Consumer organizations (International Federation of Hard of Hearing People, the Hearing Loss Association of America and the European Federation of Hard of Hearing) while excited about what the future will bring, are concerned that premature announcements will discourage research in TCs and lead to HL/ALS neglect and abandonment well before such a new technology is fully matured and carefully evaluated by end users.

While an accurate time estimate of a worldwide transition from an analog to a digital audio streaming system cannot currently be made, it is reasonable to believe that TC, HL/ALS usage will continue for the next 10-15 years and beyond.

HA/CI users require continued quality hearing access in public places which is currently, and in the foreseeable future, provided by TC and HL/ALS. The rights of HA/CI users to access must be continued and maintained during this period of technological change and shall not be compromised by the promise and overly optimistic expectations of a future technology development.

#### References:

- 1: www.access-board.gov/research/completed-research/large-area-assistive-listening-systems/1-introduction
- 2: <a href="https://hearinghealthmatters.org/hearingnewswatch/2014/hearing-industry-seeks-new-wireless-standard-hearing-aidst-coil-advocates-say-fast/">https://hearinghealthmatters.org/hearingnewswatch/2014/hearing-industry-seeks-new-wireless-standard-hearing-aidst-coil-advocates-say-fast/</a>

# **International Hearing Acces Committee**



# **Membership of the Steering Committee**

Andrew Thomas, International Hearing Loop Manufacturers Association (IHLMA) (Chair)

Aïda Regel Poulsen, Secretary, European Federation of Hard of Hearing People

Dr. Ruth Warick, International Federation of Hard of Hearing People

Avi Blau, International Federation of Hard of Hearing People

Dr. Hannes Seidler, DSB -German Association of the Hard of Hearing

Dr. Juliëtte Sterkens, HLAA Hearing Loop Advocate

Dr. Rob Drullman, Secretary of the EHIMA Technical Committee

## **Background**

At the 4<sup>th</sup> international conference about hearing loops and technology held in Berlin, Germany, October 6-8, 2017, a proposal was made for the formation of a Steering Committee. The Committee was established in 2018 and has held three meetings by internet.

#### The aims of the Committee are

- 1.To foster a greater understanding and awareness of the benefits of accessible technology and sound systems for persons with hearing loss with particular attention paid to hearing loop technology
- 2.To further developments for hearing technology and hearing loop technology use and availability as well as continual improvements in technology
- 3.To foster improved telecoil function and innovative application and raise awareness of its benefits among the providers in the hearing industry providers.

### **Objectives** are

- 1.To develop a strategic plan for the development and promotion of hearing technology including hearing loop technology worldwide.
- 2.To develop a mapping plan of existing technology and resources
- 3.To assist IFHOH in the planning for the next Future Loops and Technology event/conference.

The **scope** of the work is recognized to encompass a wide audience:

- 1. consumers and advocates,
- 2. audiologists, hearing aid and cochlear implant industry providers,
- 3. sound engineers, architects, audio/visual designers and installers,
- 4. facilities covered by disability laws and accessibility committees,
- 5. manufacturers of assistive listening systems, and others interested in this technology.