

PEVoC14 on 24-27 August 2022

A Voice Ergonomic Session on 26 or 27 August Where are we now? Where are we heading?

Submitted by The Finnish Society for Voice Ergonomics
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ABSTRACT #1 / The Voice Ergonomics Session

The Voice Ergonomics Session is organized by the Finnish Society for Voice Ergonomics. The aims of the session is to put voice ergonomics knowledge into practice and learn from each other. The two-hour session includes subsessions as follows;

1. Where are we now in the field of voice ergonomics (45 min, Abstract #1)
2. Round Table: Experts are discussing a case (30 min, Abstract #2)
3. Recent and future voice ergonomics projects (45 min, Abstract #3)

The chairman is Sofia Holmqvist-Jämsén. Conventional audio-visual equipment is needed.

Voice ergonomics: where are we now and where are we heading?

Keynote speaker prof. Viveka Lyberg-Åhlander (Åbo Akademi, Finland)

Since the 1980, the field of voice ergonomics has attracted an increasing interest in both research and clinical practice. The field is indeed not new; rather a reclaiming of the voice field for SLPs. Historically, there has "always" been an awareness of the vocal consequences a person with a voice/speech intense vocation might suffer.

Today, due to the extensive and intensive research in foremost Finland, Sweden, and Estonia, the field has a firm scientific base concerning the speaker's voice in interaction with the occupational environment and the prevailing risk factors. For the future, our knowledge now needs to transfer into actual practice. We want to put forward the general knowledge and awareness of voice in relation to the environment within which the speaker acts. In addition, we want to establish SLP's expertise in voice ergonomics as an essential competence in preventive occupational health. The keynote will cover the importance of the achievements in the area and, where they have brought us today.

Voice Ergonomics in Nordic-Baltic: Top achievements and main future aims in voice ergonomics

PhD Valdis Jónsdóttir (Iceland), prof. Viveca Lyberg-Åhlander (Finland), prof. Anita McAllister (Sweden), prof. Baiba Trinite (Latvia)

ABSTRACT #2 / The Voice Ergonomic Session

Viveka Lyberg-Åhlander, Åbo Akademi, Finland
Valdis Jónsdóttir, Iceland
Anita McAllister (Karolinska Institute, Sweden)
Baiba Trinite (Liepaja University, Latvia)
Päivi Lindholm (Oulu University Hospital, Finland)

Round Table (30 min)

Case: A child with Developmental Language Disorder (DLD). How to support with means of voice ergonomics?

PhD Valdis Jónsdóttir, prof. Viveca Lyberg-Åhlander, prof. Anita McAllister, prof. Baiba Trinite, and MD Päivi Lindholm

The round table is a part of the Voice Ergonomic Session that is organized by the Finnish Society for Voice Ergonomics (please see a separate abstract). The chairman is Hanna Vertanen-Greis. Conventional audio-visual equipment is needed. (We wish the Voice Ergonomic Session to be on 26 or 27 August because our keynote speaker is not able to be present until 26.8.2022).

ABSTRACT #3 / The Voice Ergonomic Session

Where are we heading? Recent Voice Ergonomic Projects in Finland and Sweden (30 min)

1. Voice Ergonomics Virtually

PhD Hanna Vertanen-Greis & MSc Jaana Tyrmi

Voice coaching is increasingly online and therefore tools to scale and individualize online teaching is needed. This development project aimed to meet these requirements. The project was commissioned by Finnish Voice Ergonomics Society and the City of Oulu (Finland).

2. Voice Ergonomic Interventions in Classrooms

MSc Sirpa Pirilä

Two interventions, an acoustic renovation and a voice ergonomic workshop, were carried out in two classrooms. In the workshops, teachers and pupils planned how to improve speaking and listening conditions during lessons. After the interventions, the teachers' voice symptoms decreased, and the pupils heard their teacher's voice more clearly and experienced sounds less annoying.

3. Artificial Intelligence (AI) Based Vocal Monitoring and Therapy

PhD Susanna Whittling

The development of an app based system for monitoring vocal change in patients with underlying disease affecting the spoken voice is currently being carried out. The system will track progression of underlying illnesses as well as work as a voice care tool with AI based feedback function for the voice clinic.

Conclusion: Future aspects in voice ergonomics (15 min)

Keynote speaker prof. Viveka Lyberg-Åhlander

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Hanna Vertanen-Greis (Åbo Academi University, Finland)

Jaana Tyrmi (Tampere University, Finland)

Sirpa Pirilä (Tampere University, Finland)

Susanna Whitling (Lund University , Sweden)