CSA AND HEARING CONSERVATION

Tim Kelsall[1], Alberto Behar,[2] and David Shanahan[3]
[1]Noise and Vibration, Hatch, Mississauga, tkelsall@hatch.ca
[2]IBMME, University of Toronto, alberto.behar@utoronto.ca
[3]CSA, dave.shanahan@csa.ca

1. INTRODUCTION

CSA has made the decision to disband the Technical Committee Z107 TC on Acoustics and Noise Control. There were several reasons for this action, the main been that there was not sufficient support from users to continue with those areas and also the cost of producing new standards was too high.

Instead, CSA has decided to focus into occupational hearing conservation, including hearing protection and audiometric tests.

There were three groups working in those areas before the change: a subcommittee dealing with hearing measurements, another involved in the measurement of noise exposure (both of them subcommittees in Z107) and a committee dealing with hearing protectors.

The new Technical Committee on Occupational Hearing Conservation is incorporating the above groups plus others from the Z107 committees that are related to hearing conservation.

Standards produced by the Committee are required to be in keeping with existing Canadian standards on Occupational Health and Safety Management Systems and Medical Assessment Practice.

The new TC is one of 43 such committees under the Occupational Health & Safety Standards Program. They all are established under the Strategic Steering Committee on OHS Standards. The Steering Committee, in turn, reports up to the CSA Standard Policy Board. It is the Steering Committee's responsibility to approve TC terms of reference and appointments of TC Chairs.

Five standards from the former Z107 series have been transferred to the new TC. They are: Z94.2, Z107.4, A107.6, Z107.56, and Z107.58.

Meanwhile the Z107.10 standard, Guide for the Use of Acoustical Standards in Canada will be transferred to a new Acoustical Standards Committee formed by the Canadian Acoustical Association. It will also coordinate all non-occupational acoustical standards activities. See Reference 1 for more details.

2. HEARING CONSERVATION

There is a difference between hearing conservation and hearing protection. Hearing conservation refers to a global, management system that deals with noise and vibration in the workplace. As such, the following subjects are focused on:

a) Workplace noise and vibration measurements.
b) Assessment of occupational exposure to noise and vibration.
c) Selection, training and use of hearing protection devices in the workplace.
d) Strategies for reducing the exposure.
e) Noise and vibration control systems in the workplace.
f) Audiometric testing for early detection of occupational hearing loss.

3. THE NEW TECHNICAL COMMITTEE ON OCCUPATIONAL HEARING CONSERVATION.

Following is the composition of the Committee:

Chair: Alberto Behar, University of Toronto,
Vice Chair: Tim Kelsall, Hatch

Subcommittees and Chairs:

SC 1 (S304.3) – Hearing Protection,
SC Chair: Terry Van Volsen, Sperian

SC 2 (S304.4) – Noise Exposure Assessment and Control. SC Chair: Tim Kelsall, Hatch

SC 3 (S304.5) – Hearing Surveillance (Audiometry).
SC Chair: Christian Giguère, Université d'Ottawa

SC 4 (S304.6) – Vibration Exposure Assessment and Control. SC Chair: Tony Brammer, Former NRC

SC 5 (S304.7) – Hearing Conservation Management.
SC Chair: Jeffrey Goldberg, Custom Protect Ear.

REFERENCES

1. Kelsall and Giguere, The New CAA Acoustical Standards Committee, Acoustics Week in Canada 2010

Noise Pollution

The SLARM™ Solution

The **SLARM**™ developed in response to increased emphasis on hearing conservation and comfort in the community and workplace incorporates **ACOustAlert**™ and **ACOustAlarm**™ technology. Making the **SLARM**™ a powerful and versatile sound monitoring/alarm system.

Typical Applications Include:

Community

- Amphitheaters
- Outdoor Events
- Nightclubs/Discos
- Churches
- Classrooms

Industrial

- Machine/Plant Noise
- Fault Detection
- Marshalling Yards
- Construction Sites
- Product Testing

FEATURES

- √ Wired and Wireless (opt)
- √ USB, Serial, and LAN(opt) Connectivity
- √ Remote Display s and Programming
- √ SPL, Leq, Thresholds, Alert and Alarm
- √ Filters (A,C,Z), Thresholds, Calibration
- √ Multiple Profiles (opt)
- √ 100 dB Display Range:
- √ 20-120 dBSPL and 40-140 dBSPL
- √ Real-time Clock/Calendar
- √ Internal Storage: 10+days @1/sec
- √ Remote Storage of 1/8 second events
- √ 7052S Type 1.5™ Titanium Measurement Mic

ACO Pacific

2604 Read Ave., Belmont, CA 94002 Tel: 650-595-8588 FAX: 650-591-2891

www.acopacific.com acopac@acopacific.com

ACOustics Begins With ACO™