

Report to CCAUV10 from ISO TC43 SC3, November 2015

ISO TC43 SC3 met for the third time at TNO in Delft (Netherlands) in June 2014, and for the fifth time at University of Washington in Seattle (USA) in June 2015.

TC43 SC3 now consists of four Working Groups. The work programme of ISO TC43 SC3 is as follows:

WG1: Measurement of noise radiated by ships (Convenor: M Bahtiarian, US)

ISO PAS 17028 already published- essentially same method as ANSI S12.64

ISO 17208-1: Quantities and procedures for description and measurement of underwater sound from ships – part 1: Requirements for deep water measurements used for comparison purposes

- Revision of PAS led by USA - only *Radiated Noise Level* is calculated in deep water
- DIS received positive vote at ballot in April 2015
- FDIS now prepared and is currently being balloted in late 2015

ISO 17208-2: Quantities and procedures for description and measurement of underwater sound from ships – Part 2: Determination of source levels in deep and shallow water

- Scope covers determination of Source Level and measurements in shallow water (depth less than 150 m)
- CD draft submitted – now subject to revision (led by China)
- DIS to be submitted by February 2016

ISO DIS 16554.3 (Joint Working Group with TC43 & TC8)

- Ballot defeated – future unsure, but item still on TC8 work plan

WG2: Underwater acoustic terminology (Convenor: Michael Ainslie, NL)

ISO 18405 – “Terminology for underwater acoustics”

- work led by The Netherlands (Michael Ainslie)
- Draft International Standard received many comments from national committees

Future plans

- Feb 2016: Submit 2nd Draft International Standard (DIS2) for ballot
- October 2016: Final Draft International Standard

WG3: Measurement of radiated noise from marine piling (Convenor: Stephen Robinson, UK)

- ISO 18406: Measurement of radiated underwater sound from percussive pile driving

- CD produced – vote successful in April 2015 – draft revised in Seattle
- DIS now prepared, and is currently being balloted in late 2015

WG4: Standard target of calibrating active sonar (Convenor: Ken Foote, USA)

ISO 20073: Standard-target method of calibrating active sonars for backscattering measurement

- New work item and WG approved in November 2014
- Outline of standard and discussed at Seattle meeting

Possible future work items for ISO TC43 SC3

The PWIs on the work programme are listed below. These do not yet have WGs associated with them.

- b) ISO/PWI 18685 *Underwater acoustics – Measurement of ambient underwater noise* (Stage date: 2012-11-26)
- c) date: 2012-11-26)
- d) ISO/PWI 18686 *Underwater acoustics – Measurement of sound from active sonars* (Stage date: 2012-11-26)
- e) ISO/PWI 18688 *Underwater acoustics – Sound propagation modelling* (Stage date: 2012-11-26)
- f) ISO/PWI 18697 *Underwater acoustics – Measurement of sound field* (Stage date: 2012-11-26)
- g) ISO/PWI 18698 *Underwater acoustics – Noise mapping* (Stage date: 2012-11-26)
- h) ISO/PWI 20063 *Underwater acoustics - Calibration of measurement systems* (Stage date: 2014- 06-06)

Next meeting

The next meeting of ISO TC43 SC3 will be in the London in June 2016.

ISO TC43 SC3: participating countries

Australia (SA)
 Canada (SCC)
 Denmark (DS)
 Germany (DIN)
 Italy (UNI)
 Japan (JISC)
 Netherlands (NEN)
 Norway (SN)
 Russian Federation (GOST R)
 United Kingdom (BSI)
 USA (ANSI)

S P Robinson, NPL, 19th November 2015.