

Minutes assembled from meeting power point slides by the Chair



UNDERWATER ACOUSTICS TECHNICAL COMMITTEE MEETING November 18, 2004

- I. Announcements & Business
- II. VISION 2010
- III. Special Sessions: Vancouver AND Minneapolis
- IV. Bruce Howe: Integrated Acoustic Observatories
- V. Kevin Smith

TPOM Rep for Vancouver (Jan 29-30, 2005)

Peter Dahl



TPOM Rep for Minneapolis (June 24-25, 2005)

Other FYI items:

You're encouraged to register on Peer-Express

You're encouraged to post more meeting papers (particularly for special sessions).

Don't be concerned about "advance" posting,
--posting by meeting (on line for 6 months)is enough

Fall 2007 New Orleans, to occur Tues-Sat after Thanksgiving

CTBT Hydroacoustics Workshop
2-5 May 2005
Geological Survey of Canada
Victoria, British Columbia, Canada

**To cover all aspects of hydroacoustics as they relate to
monitoring of the (Comprehensive Nuclear-Test-Ban Treaty)**



Main Theme: ‘Data Analysis to Improve Hydroacoustic Data Processing’
Secondary theme: ‘T-phase Stations’, inspired by the proximity of Canada’s
T-phase station at Dawson Inlet, Queen Charlotte Islands.

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Best Student Paper Awards: New York May 2004

First Prize:

Jed Wilber, Boston University

Presentation title: *Development of a submersible baffled impedance tube for characterization of bubbly fluids*

Second Prize

Shawn Johnson, ARL Penn State

Presentation title: *Resolution cell size effects on the statistics of seafloor backscatter,*

Thanks to the San Diego judges and to **Kyle Becker** for organizing the team-of-judges

VISION 2010 : all day meeting, Sunday November 14th

Attended by:

TCs, President (past, elect, present), VPs (past, elect, present),
Ex Council reps, other reps ~ 30 people



Five break-out groups:

1. Membership
2. Benefits as a member
3. Special Technical Fields
4. Public Outreach
5. Challenges for the Future

Expect summary report before Vancouver

ASA Policy Statement Ocean Noise and Marine Mammals

ASA Panel on Public Policy met Wednesday

Recommendation: Present draft will to be reworked

- more science based
- to endorse NRC series of reports (not reinvent)
- to identify “myths” versus facts

New draft ready for TC evaluation in Vancouver

VANCOUVER (May 16-20, 2005)

Title: Acoustic interaction with ocean boundaries: single bounce measurements 

Probing ocean boundaries with a single-interaction measurement can reveal the underlying physical mechanisms controlling reflection and scattering that may otherwise be obscured in multiple boundary interaction observations. This session will focus on experiments and theories of single (bounce) interactions with the seabed and or sea surface.

Sponsoring TC: UW/AO
POC & Organizer: Charles Holland

VANCOUVER (May 16-20, 2005)

Title: Frequency Dependence of Sound Speed and Attenuation in Marine Sediments

The frequency dependence of attenuation in marine sediments remains an active topic of interest.

This session will examine frequency dependence of sound speed and attenuation in light of data acquired during recent experiments and new theoretical developments.

Sponsoring TC: UW/ AO

POC & Organizer: Gopu Potty/ Peter Dahl

MINNEAPOLIS (Oct 17-21, 2005)



Title: Head waves and interface waves

Propagation of head (lateral) waves, interface waves, and other wave phenomena near cut-off, and their potential for geoacoustic inversion.

Sponsoring TC: UW/AO

POC & Organizer: Peter Dahl

MINNEAPOLIS (Oct 17-21, 2005)

Title: Sonar performance and signal processing in uncertain environments

A critical problem in underwater acoustics is uncertainty in water & sediment properties that effect system performance. This session explores and quantifies this effect, and potentials for robust processing are suggested

Sponsoring TC: UW/SP

POC & Organizer: Lisa Zurk/David Dowling

PROVIDENCE (June 10-15, 2006)

Title: High Frequency Ambient Noise



Invited and contributed papers that display measurements and modeled comparisons of ambient noise anisotropy at mid- to high-frequencies (>1kHz)

Sponsoring TC: UW

POC & Organizer: Juan Arvelo

It was also suggested that a session entitled:

Vector sensor processing

take place in Providence

FYI

VANCOUVER AO-lead Special Sessions

Title: Ocean Acoustic Observatories

Includes physical, biological, geophysical....

Sponsoring TC: AO/ UW/AB (Bruce Howe)

Title: Riverine Acoustics

*Developments in acoustical methods for the riverine environment,
Emphasis on measurement of fish and the riverine habitat...*

Sponsoring TC: AO/UW (Ken Foote)

FYI

MINNEAPOLIS AO-lead Special Sessions



Title: Ocean Ecosystem measurement

Use of acoustics to determine the abundance, distribution and behavior of marine organisms in relation to their environment.

Sponsoring TC: AO/ AB (Whit Au)

Title: Inversion using noise sources

Sponsoring TC: AO (Peter Gersoft)

Title: Seismic signal Processing

Sponsoring TC: SP/AO (Alan Meyer)

- Presentations by Kevin Smith and Bruce Howe on upcoming meetings and workshops this spring and summer.
- A reminder by the Chair on upcoming change-over in the UW Technical Committee, with encouragement for those who wish to join this committee. Meeting adjourned.