

AGENDA

Pacific Rim Underwater Acoustics Conference 2007

Wednesday 3 October 2007 –

Registration:

2:00 – 6:00	Registration and receipt of conference materials – Hyatt English Bay (34th floor)
4:30 – 6:30	Reception – light hor d'oeuvres, beer & wine – Hyatt English Bay (34th floor) <i>Included in registration</i>

Thursday 4 October 2007 – All sessions in Hyatt Georgia B

Using Noise I: Peter H. Dahl, Session Chair

8:15	Welcome	<i>Introduction to meeting and sessions</i>	Peter H. Dahl and N. Ross Chapman
8:30†	W.A. Kuperman	Utilizing acoustic noise	William A. Kuperman, <i>MPL-Scripps</i>
9:00*	K.D. Heaney, H. Cox, G. D'Spain, and A. Madduri	Ambient noise and geo-acoustics in deep water	Kevin D. Heaney, <i>OASIS, Inc.</i>
9:20*	M. Siderius	Geoacoustic inversion of ambient noise and applications to sonar processing	Martin Siderius, <i>HLS Research, Inc.</i>
9:40	M.G. Morley, S.E. Dosso, and N.R. Chapman	Array element localization using ship noise	Michael G. Morley, <i>Univ. Victoria</i>
10:00	P. Gerstoft, W.S. Hodgkiss, C. Huang, and M. Siderius	Impact of spatial aliasing on the use of coherent ambient noise processing for estimation of seabed layering	Peter Gerstoft, <i>Scripps Institution of Oceanography</i>
10:20	Break	<i>Coffee, pastries, etc.</i>	

Noise Budgets, Trends and Comparisons: Junghul Na, Session Chair

10:40*	R.K. Andrew, B.M. Howe, and J.A. Mercer	Long-time trends in oceanic ambient noise along the western North American coast	Rex K. Andrew, <i>APL-UW</i>
11:00*	G.V. Frisk	Noiseconomics: The relationship between ambient noise levels and global economic trends	George V. Frisk, <i>Florida Atlantic Univ.</i>
11:20	M.A. Snyder, A.I. Eller, and P.A. Orlin	Long-term ambient noise statistics in the Gulf of Mexico	Mark A. Snyder, <i>Naval Oceanographic Office</i>
11:40	J.A. Nystuen, S. Moore, and P. Stabeno	The ambient sound budget of the Bering Sea: Contrasted to other Pacific Ocean locations	Jeffrey A. Nystuen, <i>APL-UW</i>
12:00	B.-N. Kim, B.-C. Kim, B.K. Choi, C.-W. Shin, and S.W. Yoon	Snapping shrimp noise measured on the coasts of the Yellow Sea and the South Sea of Korea	Byoung-Nam Kim, <i>Korea Ocean Research & Development Institute</i>
12:20	Lunch	<i>Choose from several nearby restaurants and cafés</i>	

† Featured speaker
* Invited presentation

Field Measurements: Fenghua Li, Session Chair

1:30	B.-C. Kim, H. Cho, B.-N. Kim, C.-W. Shin, D. Kim, and B.K. Choi	Measurement of low-frequency underwater noise by a self-recording hydrophone	Bong-Chae Kim, <i>Korea Ocean Research & Development Institute</i>
1:50	H. Matsumoto, R.P. Dziak, D.R. Bohnenstiehl, M. Park, J.H. Haxel, W. Lee, and T.-K. Lau	Ambient noise in the Bransfield Strait and the Drake Passage, Antarctica: Temporal and spatial variations	Haru Matsumoto, <i>NOAA/Oregon State Univ.</i>
2:10	S. Cho, C. Lee, H. La, J. Na, and D. Kang	Observations of underwater sound: Wave breaking noise in the beach and cliff zone	Sungho Cho, <i>Hanyang Univ.</i>
2:30	P.H. Dahl, J.W. Choi, and D. Dall'Osto	Properties of the non-propulsive ship noise field as measured from a research vessel holding station in the Yellow Sea and relation to sea bed parameters	Peter H. Dahl, <i>APL-UW</i>
2:50	Y. Kim, H. La, J. Na, and S. Oh	Ambient noise measurements in the Sea of Japan (East Sea)	Youngshin Kim, <i>Hanyang Univ.</i>
3:10	Break	<i>Coffee, pastries, etc.</i>	

Impacts of Noise: Daniel Rouseff, Session Chair

3:30†	D.H. Cato	Ambient noise and marine animals	Douglas H. Cato, <i>Defence Science and Technology Organisation</i>
4:00	P.A. Lepper, S.P. Robinson, J. Ablitt, and G. Leonard	The measurement of the underwater radiated noise from a marine piling operation	Paul A. Lepper, <i>Loughborough Univ.</i>
4:20*	F. Desharnais, M.H. Laurinolli, A.E. Hay, and D.J. Schillinger	The impact of noise on passive monitoring of marine mammals in the Bay of Fundy	Francine Desharnais, <i>Defence R&D Canada – Atlantic</i>
4:40	M.J. Wilmut, N.R. Chapman, G. Yahel, and V. Tunnicliffe	A preliminary study of the effect of seismic air-gun surveys on glass sponges	Michael J. Wilmut, <i>Univ. Victoria</i>
6:30	Reception	<i>Fairmont Hotel Vancouver</i>	Included in registration
7:00	Dinner	<i>(across street from Hyatt)</i>	

Friday 5 October 2007 – All sessions in Hyatt Georgia B

Vector Sensors: Robert Spindel, Session Chair

8:30†	V.A. Gordienko	Vector-phase methods in acoustics: Problems and aspects of use	Valery A. Gordienko, <i>Moscow Lomonosov State Univ.</i>
9:00†	Q. Li and Q. Sun	A new type of vector sensor and its application in ambient noise measurements	Qihu Li, <i>Institute of Acoustics, Beijing</i>
9:30	N.K. Nalwai	Analytic and experimental results of spatial correlations of vector intensity sensors	Nathan K. Nalwai, <i>Naval Air Systems Command-NAWCAD</i>
9:50	E.L. Gordienko and V.A. Gordienko	Effects of anomalous generation of low-frequency sound in shallow shore water by a low-flying helicopter	E.L. Gordienko, <i>Moscow Lomonosov State Univ.</i>
10:10	E.O. Ermolaeva, B.I. Goncharenko, and V.A. Gordienko	Vector-phase structure of the ocean noise field	Valery A. Gordienko, <i>Moscow Lomonosov State Univ.</i>

10:30 **Break** *Coffee, pastries, etc.*

Using Noise II: Environmental Assessment: N. Ross Chapman, Session Chair

10:50*	M. Buckingham	Inversions—a radical idea: Information from ambient noise	Michael J. Buckingham, <i>MPL-Scripps</i>
11:10	D. Tollefsen and S.E. Dosso	Geoacoustic inversion of horizontal line array ship-noise data from the Barents Sea	Dag Tollefsen, <i>Norwegian Defense Research Establishment</i>
11:30	J.L. Wladichuk, W.M. Megill, and P. Blondel	A bio-inspired approach to sound localisation in the underwater coastal environment	Jennifer L. Wladichuk, <i>Univ. of Bath</i>
11:50	N.P. Chotiros and M.J. Isakson	Ambient noise in ocean sediments	Nicholas P. Chotiros, <i>ARL-UT</i>

12:10 **Lunch** *Choose from several nearby restaurants and cafés*

Propagation and Modeling: Michael J. Buckingham, Session Chair

1:30*	B.G. Katsnelson	Modeling of the sound field fluctuations due to internal waves in the shelf zone of ocean	Boris G. Katsnelson, <i>Voronezh State Univ.</i>
1:50	P. Loughlin, G. Okopal, and L. Cohen	Position-wavenumber approximation for propagation in a random dispersive channel	Patrick Loughlin, <i>Univ. Pittsburgh</i>
2:10	F. Li, Z. Li, L. He, J. Liu, and R. Zhang	The effect of ship noise on the horizontal correlation of ambient noise	Fenghua Li, <i>National Laboratory of Acoustics, Institute of Acoustics, Beijing</i>
2:30	D. Rouseff and D. Tang	Internal wave effects on the ambient noise field	Daniel Rouseff, <i>APL-UW</i>

2:50 **Break** *Coffee, pastries, etc.*

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* Invited presentation

Signal Processing: Lisa M. Zurk, Session Chair

3:10*	L.M. Zurk and R. Campbell	Characterization and mitigation of noise for Shallow Water Array Performance (SWAP)	Lisa M. Zurk, <i>Portland State Univ.</i>
3:30	M.V. Trevorrow, B. Vasiliev, and S. Vagle	Directionality and effects of maneuvering on ship-radiated underwater noise	Mark V. Trevorrow, <i>Defence R&D Canada – Atlantic</i>
3:50	L. Cohen and L. Galleani	A time-frequency approach to non-stationary noise	Leon Cohen, <i>City Univ. of New York</i>
4:10	Y. Ma, L. Bo, and K. Yang	Angular spectrum analysis of ocean noise using discrete noise source suppression	Yuanliang Ma, <i>Northwestern Polytechnical Univ., Xi'an</i>
4:30	P.A. Orlin and M.A. Snyder	A heuristic ocean ambient noise classifier	Peter A. Orlin, <i>Naval Oceanographic Office</i>

4:50 **Finale** *Closing remarks* Peter H. Dahl and N. Ross Chapman