

SOUND waves

*A Newsletter of Marine Acoustics for Clients of Noise Control Engineering
Summer - Fall 2004*

Noise Control Engineering or NCE is an engineering consulting firm specializing in shipboard noise and vibration control. NCE's services include: Noise Predictions & Analysis, Treatment Design & Selection, FEA, Shipboard Surveys and Diagnostic Testing for Airborne Noise, Vibration and Underwater Radiated Noise.

THREE NEW EMPLOYEES

In the past six months NCE has added three new employees ranging from a new college graduate to retired university professor.

Ronald Dempsey is a recent BSME graduate of Rose-Hulman Institute of Technology in Terra Haute Indiana. He grew up in Billerica and was an intern with NCE during the summer of 2003.

Nathan Jones comes to NCE from Miltec in Oxford, Mississippi. He holds a BSME from University of Mississippi which is also located in Oxford Mississippi.

Both Ron & Nathan have already been involved in numerous NCE projects. The biggest being the FRV-40 Sea Trials (see next article).

Dr. Courtney Burroughs recently retired as an Associate Professor of Acoustics at the Penn State University and is now a part time NCE employee. Courtney and NCE president Raymond Fischer co-authored the SNAME "Design Guide for Shipboard Airborne Noise". Courtney will be working on a special project for the Boeing Corporation, but is also available to consult to NCE on other projects.



Jesse Spence, Ron Dempsey & Nathan Jones (L to R) during FRV-40 Sea Trials in the Gulf of Mexico.

NOAA FRV-40 SEA TRIALS COMPLETED



The *FRV Oscar Dyson* is the first-in-class fisheries research vessel for National Oceanic and Atmospheric Administration, constructed by VT Halter Marine in Moss Point Mississippi. It has been designed to meet the underwater noise limits specified by ICES (or the International Council for the Exploration of the Sea).

NCE's team of six engineers performed numerous acoustic surveys. During Builder's Trials, NCE conducted airborne, ship-wide vibration and structure-borne surveys. During special radiated noise trials, NCE completed a sonar self-noise survey and underwater radiated noise survey. Final results of the trials are pending NOAA approval.

More information on underwater noise will be provided by Michael Bahtiarian during a lecture entitled *Underwater Noise: Not Just the Military's Problem* presented at the Workboat Show from 1:30-3:30 on Wednesday December 1st. (See www.workboatshow.com for more details).

RECENT EVENTS

Leo Boroditsky and Jesse Spence both delivered papers at InterNOISE in Prague.

Editor's Note: Special thanks to crew of OSV Tyson B. for support during FRV Sea Trials.

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