Quantum Times

Hundreds of Sources. Automatic Updates. Top Stories Only.

- [Home](http://www.quantumtimes.com/)
- [Bio & Medicine](http://www.quantumtimes.com/bio-medicine-news/)
- [Nanophysics](http://www.quantumtimes.com/nano-physics-news/)
- [Nanomaterials](http://www.quantumtimes.com/nano-materials-news/)

**TWIPS -- sonar inspired by dolphins**

Scientists at the University of Southampton have developed a new kind of underwater sonar device that can detect objects through bubble clouds that would effectively blind standard sonar. Just as ultrasound is used in medical imaging, conventional sonar “sees” with sound. It uses differences between emitted sound pulses and their echoes to detect and identify targets. These include submerged structures such as reefs and wrecks, and objects, including submarines and fish shoals. However, standard sonar does not cope well with bubble clouds resulting from breaking waves or other causes, which scatter sound and clutter the sonar image. Professor Timothy Leighton of the University of Southampton’s Institute of Sound and Vibration Research (ISVR), who led the research, explained: “Cold War sonar was developed mainly for use in deep water where bubbles are not much of a problem, but many of today’s applications involve shallow waters. Better detection and classification of targets in bubbly waters are key goals of shal


Scientists at the University of Southampton have developed a new kind of underwater sonar device that can detect objects through bubble clouds that would effectively blind standard sonar.

**Wed 17 Nov 10** from PhysOrg

[TWIPS -- sonar inspired by dolphins](http://www.labspaces.net/107727/TWIPS--sonar_inspired_by_dolphins), Wed 17 Nov 10 from Labspaces.net


[TWIPS -- sonar inspired by dolphins](http://esclienews.com/articles/2010/11/17/twips.sonar.inspired.dolphins), Wed 17 Nov 10 from el Science News

[TWIPS -- sonar inspired by dolphins](http://scienceblog.com/40313/twips-sonar-inspired-by-dolphins/), Wed 17 Nov 10 from Science Blog

[Sonar device sees through bubble clouds](http://www.theengineer.co.uk/news/sonar-...
Engineers at Southampton University have developed a new underwater sonar device that can detect objects even through bubble clouds that blind standard sonar.

Thu 18 Nov 10 from The Engineer

Sonar inspired by dolphins: New kind of underwater device can detect objects through bubble clouds

Scientists have developed a new kind of underwater sonar device that can detect objects through bubble clouds that would effectively blind standard sonar.

Wed 17 Nov 10 from ScienceDaily

- Pages: 1

Bookmark

© Copyright 2009 Privacy Contact

The time or date displayed reflects when an article was added to Quantum Times.