

SEA TECHNOLOGY

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Instrumentation for Students To Study Sedimentation Process

Students from the School of Ocean Sciences at Bangor University have a 30-year tradition of heading to the Laugharne Estuary in south Wales each summer to investigate the sediment dynamics of this energetic environment. Survey data, collected by successive generations of students over this period, indicate that the estuary is infilling with fine marine sand at a rate of 1 to 2 cm per year.

The sediment transport results primarily from strong asymmetric tidal currents causing the influx of sand from Carmarthan Bay on the dominant flood tide.

Additionally, locally generated wind waves in the shallow estuary may contribute at different frequencies and complicate the overall picture.

A newly introduced exercise utilizing Nortek's Doppler instrumentation is helping the students to understand the processes behind this long-term trend in sedimentation.

The Nortek Vector Doppler velocimeter, together with an externally mounted optical backscatter sensor and a pressure transducer, illustrates the temporal patterns of sediment flux to the students.

Successful Second Teledyne Workshop in San Diego

Teledyne Marine hosted the second biennial Teledyne Marine Technology Workshop in October in San Diego, California.

A record-breaking 270 customers from around the world attended.

The keynote speakers were Oliver Steeds, founder, chief executive and mission director of Nekton, who gave an inspired speech on new deep-sea discoveries and industry's responsibilities as stewards of the oceans, and Margaret Leinen, director of Scripps Institution of Oceanography, who presented an overview of the challenges facing the oceans and political progress. The workshop included more than 40 product and software introduc-

tions and training classes; 12 dockside demos; two boats running 24-hour on-water demos; 14 industry partners and suppliers as exhibitors/sponsors; and networking events.

ClassNK Type Approval for Ship Maintenance Software

Helm Operations has earned class type approval for its planned maintenance software, Helm CONNECT, from ClassNK, which is a member of the International Association of Classification Societies (IACS), whose members recognize and accept type approvals from other society members, thereby allowing any shipowner to implement the Helm CONNECT software as a planned maintenance tracking system.

This type approval now makes it possible for Helm Operations to expand into the much larger blue-water shipping industry.

Li-S Battery Achievement For Deep-Ocean Applications

A consortium comprising Steatite, OXIS Energy, MSubs and the U.K. National Oceanography Centre has achieved what it set out to do by de-

— Inertial Navigation Systems



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