



## Hello test

Welcome to the fifth edition of Nautel Navigator with news about ATC Global, how to make your own clamp-on RF current probe, plus read about a few recent major announcements:

- our founder Dennis Covill was appointed as a Member of the Order of Canada;

- and we launched an extensive upgrade to equipment at our Bangor, Maine manufacturing facility.

We would love to hear from you. Please send your feedback and input for future topics to [nav@nautel.com](mailto:nav@nautel.com).

Thank you!



[Play Solar-Powered Nautel NDB Agalega Island Video](#)

Nautel's Vector 125W/250W NDB Transmitters have high overall efficiency (70% or better) resulting in low power consumption and reduced operating costs, making them ideal for this type of situation.

## In this issue

- [Visit Nautel at ATC Global](#)
- [Vector Series Transmitters and Antenna Tuning Units](#)
- [Nautel Partner UrsaNav Acquires Megapulse](#)
- [NEW! 650 MHz Amplifier](#)
- [Meet Customer Service - Qualified to Work Offshore](#)
- [Spotlight on Nautel Founder Dennis Covill](#)
- [Maine Facility Modernized for Growth](#)
- [Tech Tips 'n Tricks](#)

### Visit Nautel at ATC Global

Nautel will be at the Systems Interface stand D103 at ATC Global, Amsterdam RAI, The Netherlands, March 12-14, 2013.

On display will be a low power land-based 125W NDB system.

Gary Galbraith will be on hand to answer any questions you might have on Nautel navigational products.



### Vector Series Transmitters and Antenna Tuning Units

Since introducing the world's first totally solid state, high power radiobeacon in 1970, Nautel has supplied the highest quality and reliability in non-directional radio beacons. The most recent Vector Series Transmitters and Antenna Tuning Units continue this heritage and provide a dramatic improvement in system coverage.



Specifically designed for use in harsh conditions, from desert to arctic to coastal and maritime environments, the Nautel Vector System offers a unique, patented solution to maintain system coverage regardless of undesirable antenna effects such as salt build-up on antenna insulators and ground plane resistance changes.

[Read more >](#)

[Nautel Partner UrsaNav Acquires Megapulse](#)



**Tell YOUR Story Now to WIN  
this Nautel Prize Pack!**



**Play NautelNAV Videos >**

**'Like' NautelNAV >**

#### **UPCOMING EVENTS**

**ATC Global**, March 12-14  
Amsterdam RAI  
The Netherlands  
**Visit us at  
Systems Interface Stand  
D103**

**OTC**, May 6-9  
Reliant Center  
Houston, TX  
**Visit us at  
Nova Scotia Booth  
Canada Pavilion**

**[View All Upcoming Events >](#)**

**[Product Information Request  
and Feedback Form](#)**

Nautel partner UrsaNav has acquired Megapulse, solidifying its position as the first-tier player in the High Power / Low Frequency / Ground Wave market, and also asserts its leadership in providing end-to-end, industry-leading solutions to the global Alternative Positioning, Navigation, Timing, and Frequency community.

**[Read more >](#)**

#### **NEW! 650 MHz Amplifier**



Nautel introduces our latest in a 40+ year history of reliable and highly efficient, solid state amplifiers with the release of Nautel's 2.5kW, 650 MHz, CW Amplifier.

Some of the quick specifications and features of our latest amplifier include:

- 2500 watts typical, 3500 watts maximum rated power
- High AC to RF efficiency of 57% typical
- Redundant PA architecture with soft fail
- Adjustable PA DC supply for efficiency optimization at different operating points
- Compact (3RU)
- RF load VSWR
  - Provides 2500 watts CW into a 2:1 VSWR
  - Provides 3500 watts CW into a 1.2:1 VSWR
  - Operates safely into any VSWR
- 65.5 dB maximum gain
- Water cooling

For more information on Nautel's 650 MHz Amplifier please contact Kirk Zwicker, Market Development, RF Power, Nautel via email at [kzwicker@nautel.com](mailto:kzwicker@nautel.com) or via telephone at +1 902 823 3900

**Meet Customer Service - Qualified to Work Offshore**

## Distributor Corner

**systemsinterface**  
total airport solutions

**Systems Interface Limited**  
Nautel Authorized Distributor  
for Land Based (Airport) NDB  
Transmitter Applications  
in U.K. and Europe.

Telephone: +44 1483 267 066



Did you know that Customer Service Technicians – Scott Macleod, Ryan Swinamer and Gary Warner (pictured above)– are fully trained and qualified to work offshore?

The following qualifications enable these personnel to take a helicopter to an offshore platform, and perform the required duties: Basic Survival Training, HUEBA, DONUT, Skyscape, HUET, H2S.

[Meet the Full Customer Service Team >](#)

### Spotlight on Nautel Founder Dennis Covill

In November Nautel founder Dennis Covill was appointed as a Member of the Order of Canada for his contribution to engineering and science.



A pioneer in the transmitter industry, Covill used revolutionary technologies to design transmitters with smaller footprints, capabilities for redundancy, hot-swapping of modules, and other technologies now considered “basic” to the transmitter industry.

Read the story behind how Covill created a culture of engineering excellence at Nautel, now one of the world’s leading companies in its field.

[Read More >](#)

### Maine Facility Modernized for Growth



Nautel held a ribbon-cutting ceremony on Tuesday Dec 11, 2012, to launch an extensive upgrade to production equipment at its Bangor, Maine manufacturing facility.

These improvements help improve efficiency and capacity and poise the company for significant future growth.

Decisions like this have allowed Nautel to nearly triple revenues and dramatically increase shipments in the past few years while maintaining the same factory footprints.

[Read More >](#)

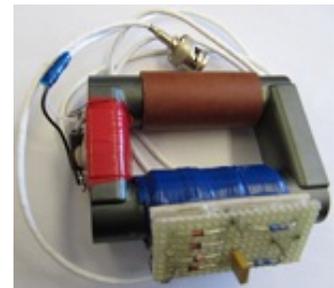
#### Tech Tips 'n Tricks

#### How To Make Your Own Clamp-on RF Current Probe

Last issue's Tip, [Optimising the Site Layout of Radio Transmitter Stations](#) explained the importance of controlling the path followed by the antenna current as it returns to the feed point at base of the antenna.

The ability to measure the magnitude of the current in each of the associated conductors is a critical requirement during the installation procedure. It can also save many labour hours when checking the integrity of an aging ground plane system.

The currents can be sampled using commercially available clamp-on RF current probes. You can also make your own with parts costing less than \$50. This article details the steps to make your own clamp-on RF current probe.



[Read More >](#)