



OMEGA Productive Services, Inc.

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Quote of the Month:

“If your actions inspire others to dream more, learn more, do more and become more, you are a leader.”

-John Quincy Adams

? Ask Dr. Brush



Contributed by:
Max Carthew
C.E.O.

HARNESSING THE POWER OF THE SEA



www.gizmag.com

We have heard a lot of discussion in the press this year about modifying the Michigan economy to leverage our engineering talent for emerging industries like **Alternative Energy**.

We hear a lot about start-up companies for Solar and Wind energy but not much about Tidal and Wave energy.

In Europe momentum is growing in this field with some early work aimed at developing tidal resource data. Water flow is three dimensional and often turbulent requiring some new measurement techniques for underwater use.

Britain has some older nuclear facilities that will be phased out in the near future so replacement by alternative environmentally friendly sources makes good sense.

One project is headed by the Pentland Alliance which is focused on harnessing the enormous tidal energy in the Pentland Firth a stretch of water between the North coast of Scotland and the Orkney Isles. One report claims that this high energy field could become the Saudi Arabia of tidal energy. Maximum extraction rates are estimated at 9 GW of electricity.

The likely technologies to emerge have been whittled down to four:

- Horizontal axis turbines.
- Vertical axis turbines.
- Venturi-based collectors.
- Linear lift devices.

A pilot device by Professor Bryden of Edinburgh University called the SeaSnail was installed in 25 meters of water off Orkney. Bryden stated that the device produced power, and he learnt more in the first five minutes of operation than in his entire career.

Fixing devices in deep water and transporting electricity to the mainland remain massive challenges.

Political will and new investment from the energy sector will both be vital for meeting this new engineering challenge.

Credit: PE Journal-Institution of Mechanical Engineers-London.



INSIDE THIS ISSUE:

| | |
|--------------------------------|---|
| Dr. Brush | 1 |
| ISP / M& V Services | 2 |
| BRAGGING CORNER | 3 |
| Mich - Again | 3 |

OMEGA's ISP / M&V Services

OMEGA offers customers a variety of services. I'm here to highlight the ISP/M&V Services that we provide. To gain a clear understanding of each service, ISP is an acronym for Integrated Service Plan and M&V is an acronym for Metering and Validation.



ISP/M&V is a plan where **OMEGA** provides a customized monthly engineering service on an annual contract basis. Qualified engineers or technicians are assigned to a paint system to provide a plethora of support services aimed at keeping spray booths and ovens operating at peak performance. Sophisticated measurement and analysis techniques are used to track equipment condition and respond to process or training needs.

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Many times but not limited to, the ISP/M&V service is implemented at a plant after an energy savings project. By combining these engineering services with the energy savings project, the plant can ensure the savings claimed and the implementation items remain intact for the life of the service.

Typical measurements on an ISP/M&V would be: supply volumes, exhaust volumes and static pressures, fan rpms, spray booth downdrafts, spray booth crossdrafts, sludge pump water pressure, fan amps, building pressurization, temperature/relative humidity monitoring, utility monitoring, and run-time verification.

In addition to the large amount of air balance data gathered with these services, you can also expect to receive troubleshooting assistance and additional training for plant personnel to help with the overall paint process.

OMEGA has applied these services in several plants over the years. These services have helped plants to monitor air balance on a monthly basis, provided extra assistance to monitor equipment condition, and have ensured energy savings measures remain implemented.

For more information on these services, please contact **OMEGA** with any questions or feel free to visit our web page by copying and pasting this link into your web browser.

<http://omegapro.com/brochure/Service%20Plan%20-2008.pdf>

Contributed by: Kevin Dunbar – Project Engineer

Current Projects

- ❖ During the past quarter Omega has received engineering projects from General Motors, HM White, Rudolph/Libbe, MPS Group, and Giffin. Several of these projects are to do with process improvements, and energy optimization.
- ❖ Omega continues to manufacture the AIRSTAT PDA as well as providing repairs and calibration services for older GILL INSTRUMENTS that have been in service for several years.
- ❖ Ongoing service projects include Siemens/Auto alliance, and ACH Milan Plastics, where Omega is involved in monitoring and verification services.

BRAGGING CORNER



Great expectations! Seth and Susan (Jeff and Julie Wallis' daughter) recently found out they are expecting again. The new baby is scheduled to arrive at Thanksgiving time and will be joining big brother Connor (who just celebrated his 2nd birthday in April). This exciting news came the day after they purchased their new home! What a joyful time.

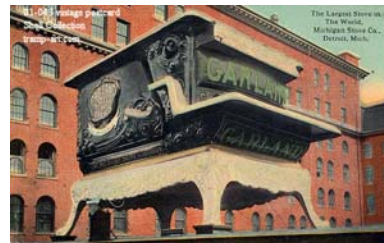


Max's grandson John turns 5 on May 14th. As you can see he is very sporty and is wearing orange for his outing with Papa Max. John will be riding high after his party as he will be getting a new 18 inch wheel bicycle. John is all about "great rides".



Bill's grandson Nathan turned 5, on April 5th. We celebrated his birthday with his family and friends with a Bowling Birthday party at Plaza Lanes.

Mich - Again



<http://www.tramp-art.com/scrapbook/01-043.JPG>

The Garland Stove

Especially designed by Michigan Stove Company for the 1893 Chicago Exposition, the gigantic Garland wooden stove loomed over amazed crowds. Twenty-five feet high, thirty feet long, twenty feet wide, and weighing twenty tons, it was billed the "World's Biggest Stove." It was such an attention-getter that, after Chicago, Michigan Stove Company displayed it outside their factory for all to see.

Michigan Stove Company was eventually bought-out by successive companies that continued to exhibit the mammoth stove outdoors where, slapped by wind, rain and snow, the structure gradually deteriorated.

In 1965, the weather-beaten stove was hauled to the Michigan State Fairgrounds. Finally, in 1974, the crumbling structure was dismantled and put into storage at the Historic Fort Wayne, where it was soon forgotten by almost everyone, but John Hertel, a history buff and new manager of the fairgrounds, who was determined to have it restored.

In 1995, twelve trucks lugged out the enormous wooden pile. Pieces had to be painstakingly identified or reconstructed and assembled bit by bit.

The 1998 grand finale was a race against time. Governor Engler was to unveil the stove on August 24, but a series of glitches had delayed progress. Hertel thought of cancelling the ceremony, but Chrysler Corporation, volunteer craftspeople and Henry Ford Museum pitched in at the last minute. The stove was finished four hours before the unveiling, its paint still a bit sticky.

The Garland Stove can be seen at the Michigan State Fairgrounds.

Contributed By: Annick Hivert-Carthew



OMEGA Productive Services, Inc.
MISSION STATEMENT

TO PROVIDE PAINT SYSTEM – PROCESS IMPROVEMENT SERVICES THROUGH CONTINUAL IMPROVEMENTS OF OUR QUALITY MANAGEMENT SYSTEM, TO ENHANCE OUR CUSTOMERS' SATISFACTION OF SERVICES PROVIDED; ON TIME, ON BUDGET, EVERY TIME.

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“We ought all to be content with the time and portion assigned us. No man expects of any one actor in the theatre that he should perform all the parts of the piece himself: one role only is committed to him, and whatever that be, if he act it well, he is applauded. In the same way, it is not the part of a wise man to desire to be busy in these scenes to the last plaudit. A short term may be long enough to live it well and honourably.”

- Cicero