

Currents

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News from the Marine Technology Society

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Attendees begin gathering for the Dynamic Positioning Conference. Over twenty technical papers were presented covering a range of DP-related topics, including presentations on ice testing, new applications, operations, power, sensors and thrusters. The conference concluded with a panel discussion on the MTS DP Design Guidance documentation.

MTS Dynamic Positioning Committee Annual Conference Held in Houston

Celebrating 50 Years of Dynamic Positioning

The Dynamic Positioning Committee (DP) faced an enviable problem this year as registrations sold out well before the actual event. Attendance was capped at 350 people, including 31 active licensed DP operators. The Conference was held in October in Houston. Now in its 15th year, the conference coincided with the 50th anniversary of DP, first introduced in 1961. A condensed history of dynamic positioning, written by Howard Shatto, can be found at www.dynamic-positioning.com/history.html.

The Conference, which is internationally recognized as the leading annual symposium

on Dynamic Positioning Technology, attracts DP professionals from across the globe. In addition, DP manufacturers and service companies exhibited their products and technology at the conference.

A workshop was held the day prior to the conference that included DP operators and other professionals from Asia, Europe, South America and the United States. This was followed by a highly successful two-day conference, which included an exceptional program of technical papers, thanks in part to the hard work and efforts of Technical

See **DP** on page 5

MTS Continues Focus on Strategic Governance

The MTS Board has examined several ways of including the thoughts and opinions of the MTS Council as it moves forward with various strategic initiatives. The Council, composed of the chairs of the local Society Sections and the Society Professional Committees, meets twice a year — at the Offshore Technology Conference (OTC) and the OCEANS Conference.

However, the actual Council make-up at each meeting is distinctly different as a result of the venues. The OTC Council meeting tends to be largely populated with MTS constituents involved in the offshore industry. The OCEANS Council tends to represent more disparate interest groups. The Board's decision was to find a means to take full advantage of these differences, as the Council meetings reflect the wide variety of professional interests as represented within the Society.

To this purpose, the Board restructured the Council meeting this past May at OTC, and continued this strategic focus at OCEANS'11 Kona this past September. Formerly the Council focused on activity reporting and future events. This year the Council had a more guided agenda that permitted them to be more fully engaged in the strategic direction of the Society. The group discussed ideas within the context of the strategic plan with a goal of fostering greater cooperation in events across the Society and the exchange of ideas and suggestions. As a result, the Council members were fully engaged in a highly vibrant meeting structure.

The Kona meeting emphasized the OCEANS engagement and asked the question "Is OCEANS working for you?" in the context of meeting section and committee goals and furthering the mission of the society. Participants also

discussed engagement in the MTS government relations efforts, ideas for strengthening MTS Professional Committees and how Committees could best utilize the TechSurge workshop program.

Council members have taken advantage of the changes to become more involved in the strategic direction of the Society. According to Ocean Pollution Committee chair Ryan Morton, "The council meeting approach encouraged an open flow of ideas. I enjoyed the 'working group' feel. It really contributed to bringing the group together to brainstorm each issue."

For a number of years, the Council has included two student representatives who have gained valuable leadership experience through their participation. The positions are hardly ceremonial as student perspectives and insights are often sought out during the meeting. Student representative Ryan Vandermeulen, University of Mississippi, noted "For student representatives to the council, the open-style format afforded us the opportunity to efficiently communicate the first-hand concerns of an educationally diverse group of students to the members of the council. Student representatives assist the council by keeping its members informed on what students need from MTS as an organization, while the council meetings help student representatives to know what topics to focus in the student leadership meetings."

According to MTS President Jerry Boatman, "I am privileged to engage this breadth of wisdom from our committee and section chairs represented by the Council as we harvest their advice to further our planning initiatives, process improvements, and impacts. Since MTS represents a wide range of specialties in science and technology, we are positioned, through active professional committees and sections, to promote dialogues and initiatives and facilitate solutions to challenges facing a variety of industries."

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- To join MTS, visit the website at www.mtsociety.org or e-mail jeanne.glover@mtsociety.org.
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Event Calendar

Underwater Intervention 2012
January 24–26, 2012
New Orleans, La.
www.underwaterintervention.com

Oceanology International 2012
March 13 - 15, 2012
ExCel London
<http://www.oceanologyinternational.com>

International Marine Forensics Symposium 2012
April 3 - 5, 2012
National Harbor, MD
<http://www.sname.org/forensics2012/home>

Offshore Technology Conference 2012
April 30 - May 3, 2012
Houston, Texas
<http://www.otcnet.org/2012>

Correction

The September/October issue incorrectly referred to the Ocean News and Technology Young Professional Awards. MTS thanks and appreciates Ocean News and Technology's ongoing support of these awards and MTS.

Happy Birthday, Marine Technology Society!

by Liz Corbin

Yes, it's true —MTS will be celebrating the big 5-0 in 2013!

Although it's over a year away, it's not too soon to start thinking about how to celebrate this momentous milestone. Many ideas have been suggested — and more are welcome!

One activity definitely on the agenda is a 'look back' at the last 50 years of marine technology, focusing on industry discoveries and advances made possible by developments in marine technology in the U.S. and around the world.

Some of our founding members are still active and we hope they've got a treasure trove of pictures, anecdotes and historic perspectives that we can draw upon to create a comprehensive picture of how our marine technology industries have grown and contributed to improving the economy and the environment, and, importantly, how our Society has supported that contribution. We're asking everyone, no matter how long you've been a member, to start searching your archives, attics and memories. The plan is to create a book that will highlight our industry, technology and the Society's contributions.



We'd like to begin collecting your stories and photos, as well as ideas on how to celebrate our 50th birthday, all year long.

To get the memory juices flowing, here are some highlights of MTS' first 25 Years from an article in the *MTS Journal*, Vol. 22, No. 1:

- MTS is incorporated in June, 1963
- First National Conference/ Convention/Exhibition is held in Washington, DC in 1965
- Volume 1, Number 1 of MTS' *Journal of Ocean Technology* is published in 1966
- MTS and IEEE/OES first join forces for the annual conference in 1974
- MTS Fellows award is inaugurated in 1975
- OTC attendance tops 100,000 in 1981
- First ROV conference is held in 1983
- The first OCEANS conference outside the U.S. is held in Halifax, N.S. in 1987

Be sure to keep an eye out for notices in *Currents*, e-News and our web site. In the meantime, if you have ideas or materials or are willing to be interviewed, please send an email to publications@mtsociety.com.

Dr. Ann Jochens Appointed *MTS Journal* Editor

Dr. Ann Jochens has been appointed editor of the *MTS Journal* effective January 2012. Jochens replaces Dr. Brian Bingham of the University of Hawaii. In his two years of service, Bingham guided a series of strong, themed issues on topics including Ocean and Coastal Pollution, Sustainable Aquaculture, the Integrated Ocean Observing System, Biomimetics and an issue on Maritime Domain Awareness, for which the *Journal* received a commendation letter from the Department of Homeland Security.

Jochens holds a J.D. in Ocean Law from the University of Oregon and a Ph.D. in Oceanography from Texas A&M. Her primary scientific focus has been on circulation and water properties, particularly in the Gulf of Mexico, and their impacts on habitats, as well as development of ocean

observing systems. For over 20 years, she has been a principal investigator on 15 sponsored projects funded for over \$35M and has participated in 11 research cruises to the Gulf of Mexico and Indian Ocean. She has 13 peer-reviewed publications with an additional 10 in preparation, over 70 major reports and other publications and nearly 100 abstracts and presentations. Jochens currently participates in a state-of-the-art ocean observing project off Oman, and she was Project Scientist for the World Ocean Circulation Experiment (WOCE).

Since 2005, she has held leadership positions with the Gulf of Mexico Coastal Ocean Observing System Regional Association (GCOOS-RA), a multi-entity partnership of government agencies, academic and research institutions and private industries, and currently serves as GCOOS-RA Executive Director.



Dr. Ann Jochens is appointed editor of the *MTS Journal*.

MTS Government Relations Depends on MTS Members

by Justin Manley

In 2012, as a continuing part of the MTS outreach to the U.S. federal government, MTS staff and leadership will be encouraging individual and organizational members to alert MTS when they plan on visiting Washington in a personal or professional capacity.

Over the past few years, we have begun to establish MTS as a “go-to” resource for Congress, agencies and foreign embassies on matters involving energy, the environment, education and ocean technology. We do not take positions on legislation or policy, but we do offer MTS members as experts when public policy surrounding our industry is being discussed and debated on Capitol Hill. Specifically, we have engaged over 100 members of Congress, mostly from areas where

MTS has sections. We have connected with legislators who serve on congressional committees overseeing ocean issues, the actual congressional committees of jurisdiction and representatives who serve on the House Oceans Caucus. In all cases we have explained the important role that MTS has played over the past 50 years as a leading expert body in marine science and technology.

We’ve done a good job in conveying to Congress the idea that with one call to MTS, Congress can tap into decades worth of experience, expertise and institutional and corporate knowledge to evaluate the impact of public policy on the field. There is no substitute, however, for direct contact with the scientists, engineers, educators and other professionals who are

the foundation of MTS.

Therefore, if you could spare a few hours of your time when you visit Washington, MTS will schedule time with your members of Congress and other members who may be specifically interested in your technology. While members of Congress enjoy the high level overview of MTS as a resource, the fact is, when an actual MTS member, a constituent, walks in the door, a person who represents a company or university and citizens in his or her district, a congressional office will be even more interested and responsive to that individual. This facilitated interaction with government is a mutual benefit to MTS and to our members. It is available to all members of the Society.

We plan to incorporate this individual outreach into the overall MTS government relations effort and hope you will let us know when you plan to be in Washington in the future.

MTS Headquarters Hosts the Washington, DC Section Executive Committee

The newly appointed Washington, DC Section Executive Committee held their first meeting in early November.

The Section leadership was hosted by MTS at the new headquarters location at 1100 H Street NW, Washington DC. Brent Evers (outgoing Section Chair) and John Fornshell (outgoing Treasurer) briefed the new Executive Committee and the group began planning for several upcoming events.

The Washington, DC Section has over 200 members. The Section plans monthly events, such as their Breakfast Series, in addition to larger annual events including the Annual Ocean-eering/MTS Symposium. This event is held each fall at Ocean-eering International, Inc. in Hanover, MD. As well as providing educational opportunities with these events, the networking opportunities among local colleagues, businesses, universities and government offices in the Washington, DC metro area are also enhanced. Speaking this year was RADM (Sel) David C. Johnson, PEO Submarines.

In September a new executive committee was appointed and they

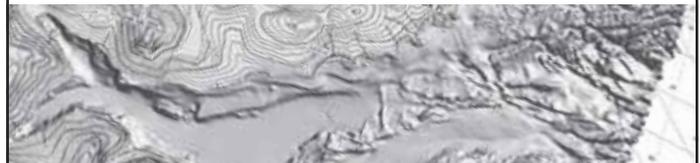
hit the ground running with a couple of events in December. One was the monthly Breakfast Series, featuring in December Kathleen Meehan Coop, who discussed her role as Director for the National Ocean Sciences Bowl (NOSB®) at the Consortium of Ocean Leadership. The event was held at the Sheraton Crystal City Hotel.

The Washington DC Section also hosted a holiday party at the Grand Hyatt in Washington, DC, featuring a speaker and a silent auction. The event helped fund the Section’s general program fund, to further their goal of providing more

educational programs at reduced, or if possible, no cost.

The executive committee plans to focus on events that touch on education, and would like to have student involvement, especially as several Student Sections are located nearby.

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The Newly Formed Oregon Section Hosts First Event, Appoints Officers – and Makes Plans

This fall the MTS Oregon Section hosted their Kickoff Meeting at Oregon State University, themed “Building Community.” Chris Ordonez, John Lavrakas and Jeremy Childress spoke on why they chose to start an MTS section in Oregon and the opportunities available for students, educators and professionals in the future. Representatives from several local organizations discussed the importance of building a community centered on marine technology. The Section also discussed forming a local student section, the importance of (and involvement with) the national MATE ROV organization, and reminded students of scholarship opportunities available from the Society. Upcoming events

include a dinner and tour of the new NOAA Ship Ops facility in Newport.

Although unable to attend, MTS Executive Director Rich Lawson taped a short video, shown at the meeting, in which he welcomed the Oregon Section to MTS.

The Section newly appointed officers are:

Chair: Jeremy Childress; Oregon State University College of Oceanic & Atmospheric Sciences

Vice-Chair: Chris Ordonez; Oregon State University College of Oceanic & Atmospheric Sciences

Treasurer: Andrew Ziegwied; MacArtney Underwater Technology

Secretary: John Lavrakas; Advanced Research Corporation

Dynamic Positioning Annual Conference: Featuring 50 Years of DP/15 Years of the DP Conference

continued from page 1

Chair Richard Simpson (BP).

Howard Shatto (Shatto Engineering), credited as pioneering the use of Dynamic Positioning for offshore vessels, introduced the conference with a short presentation entitled “50 Years of DP/15 Years of the DP Conference” in which he outlined some of the history and highlights of Dynamic Positioning over the past half century.

This was followed by a keynote address by Robert Patterson, Vice President Upstream Major Projects, Shell International Exploration and Production - Projects and Technology.

Over twenty technical papers were presented covering a range of DP-related topics, including presentations on ice testing, new applications, operations, power, sensors and thrusters, concluding with a panel discussion on



An important element of the Dynamic Positioning Conference is the Exhibition Hall, well-recognized as the place to see critical technologies.

MTS DP Design Guidance initiative.

Luncheon programs included a talk by the United States Coast Guard on the Coast Guard’s perspective of DP Operations and an awards ceremony at which Suman Muddusetti (Shell International Exploration and Development) was honored with the Dynamic Positioning Committee’s Distinguished Achievement Award.

The Conference also introduced attendees to two key documents

spearheaded by Suman: “DP Vessel Design Philosophy” (introduced at the conference) and “DP Operations Guidance.” These are available at no charge through the DP website at www.dynamic-positioning.com.

Proceedings from the Conference were provided on memory sticks to all attendees and are also available online at its website for conference attendees.

More information available at <http://www.dynamic-positioning.com>.

Following the Scholarship:

An Interview with 2011 Scholarship Recipient Camille Pagniello

Camille Pagniello, undergraduate student at Dalhousie University, was a recipient of a 2011 MTS Undergraduate Scholarship. MTS recently had the chance to catch up with Camille to find out why she chose an education in ocean science.

MTS: Why did you decide to study Ocean Science/Ocean Technology?
Camille: I have wanted to become a marine biologist since I was seven years old. The ocean, with its billions of unique creatures, plants and phenomena, has never ceased to amaze me. Although the oceans cover approximately 70% of the planet's surface, they are largely unexplored, and undescribed. Marine technology plays a vital role in ocean research, allowing scientist to tackle the unknown.

MTS: What is your major?

Camille: I am currently working towards a Bachelor of Science, Co-op, with a Combined Honours in Marine Biology and Physics at Dalhousie University in Halifax, Nova Scotia.

MTS: What are your future career plans in ocean science/technology?

Camille: There is currently a widespread need for employees with a broad range of knowledge and skills. This interdisciplinary degree will provide me with many of the skills I will need to succeed in the workplace environment. I am interested in the field of underwater bioacoustics. Particularly, I would like to investigate the use of echolocation in marine mammals, in order to better inform the management of anthropogenic noise in the ocean. Graduate work, and eventual employment in this research area, are my career goals.

MTS: What does it mean to be a recipient of an MTS Undergraduate Scholarship? Why do you think Scholarship opportunities are important for students like yourself?

Camille: It is an absolute honour to be a recipient of an MTS Undergraduate Scholarship. Being a recipient of such an award recognizes not only my achievements in my community, but also my potential to be a future



Camille Pagniello, 2011 MTS Undergraduate Scholarship recipient

leader in the field of marine technology. Scholarship opportunities are important for students like myself not only to help fund their education, but also to motivate them to expand their interests into new fields.

MTS: How was your experience attending MTS Oceans in Kona?

Camille: Attending MTS Oceans in Kona was a life-changing experience. Having only completed my first year of studies, meeting scientists, engineers and technologists who are highly regarded in their fields who were willing to talk, and share their own experiences with me, made for an incredible week. I cannot thank MTS enough for providing me with this opportunity.

MTS: Regarding your membership to MTS, what are your goals in the future?

Camille: In the future, I hope to continue my involvement with MTS by founding the first international

(Canadian) student chapter at Dalhousie University. This is an opportunity for me to share what I have learned with other students to help build a strong foundation for restocking marine technology leaders.

MTS: Why do you think ocean science/technology is important in your region?

Camille: The province of Nova Scotia is a world leader in ocean science, technology research and in marine governance and affairs. Partners from industry, government and the post-secondary education system come together to increase the scale, quality, internationalization and impact of marine research in the region. Ocean science and technology research is an essential part of Nova Scotia's economy. It is also an ideal location for a student such as myself to get involved in the marine research community.

MTS Scholarship Application Period Opens in January

The Marine Technology Society is proud to offer students numerous scholarship opportunities. In 2010, nearly a quarter of a million dollars in scholarships were awarded as part of the Society's commitment to helping students achieve success. Although most scholarships require MTS student membership, there are several that do not.

The scholarship application period opens in early January. All applications must be postmarked no later than April 16, 2012.

MTS student memberships are only \$25 annually. Members are encouraged to give a gift of a student

See **Scholarships** on page 8

Learn More About MTS Scholarships at:

www.mtsociety.org/education/scholarships.aspx

Scholarships Available to MTS Student Members

Charles H. Bussmann Undergraduate Scholarship	\$2,500	Open only to MTS members who are undergraduate students enrolled full time in a marine-related field
Charles H. Bussmann Graduate Scholarship	\$2,500	Open to MTS members who are graduate students enrolled full time in a marine-related field
The MTS Student Scholarship for Graduate and Undergraduate Students	\$2,000	Open to MTS member graduate or undergraduate students enrolled full time in a marine-related field
The MTS Student Scholarship for Two-Year, Technical, Engineering and Community College Students	\$2,000	Open to MTS members enrolled in a two-year, technical, engineering or community college in a marine-related field
The MTS Student Scholarship for Graduating High School Seniors	\$2,000	Open to high school seniors who have been accepted into a full-time undergraduate program
John C. Bajus Scholarship	\$1,000	Open to MTS members who are undergraduates and graduate students enrolled full time in a marine-related field who have shown a commitment to community service and/or volunteer activities
The Paros-Digiquartz Scholarship	\$2,000	Open to MTS members with an interest in marine instrumentation who are undergraduates and graduate students enrolled full time in an academic institution.
Dieter Family Travel Scholarship	Conference registration and travel-related expenses to attend the Student Leadership Meeting at the OCEANS'11 MTS/IEEE Hampton Roads (VA) Conference in October.	Open to MTS members who are undergraduate and graduate students enrolled full time in a marine-related field.
ROV Scholarship	Up to \$10,000	Open to any students interested in remotely operated vehicles (ROVs) or underwater work that furthers the use of ROVs.

Available to MTS Student Members/Non-Members

ROV Scholarship	Up to \$10,000	Open to any students interested in remotely operated vehicles (ROVs) or underwater work that furthers the use of ROVs; graduating high school students (<i>college students may apply for this scholarship, but they must be MTS members</i>)
The MTS Student Scholarship for Graduating High School Seniors	\$2,000	Open to high school seniors who have been accepted into a full-time undergraduate program

MTS Scholarships: Application Period Opens January

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membership to students studying in any marine-related field. Membership benefits students by providing an expanded opportunity to learn more about their chosen field, interact with professionals in the field, as well as gain valuable leadership skills. Additionally, MTS thanks Teledyne RDI for their ongoing support of student memberships.

MTS scholarships are open to undergraduate and graduate students studying marine science, marine engineering and all aspects of the marine technology field. In addition, there is a scholarship available to high school seniors who have been accepted into a full-time undergraduate marine-related program.

To learn more about MTS scholarships, visit www.mtsociety.org/education/scholarships.aspx. The Society encourages the use of the online application form that will be available on this site. For more information, please call Scholarship Coordinator Suzanne

Voelker 202-717-8705 ext. 102 or email suzanne.voelker@mtsociety.org. Congratulations to the 2011/2012 scholarship winners!

Bussmann Undergraduate Scholarship

Christina A. Zarrilli

Bussmann Graduate Scholarship

Chris Cartellone

MTS Graduate Scholarship

Daniel H. Blustein
Hunter Brown
Garrett Alan Mitchell
Nancy Muehllehner
Dana N. Orbach
Ian A. Milne
Alyson J. Azzara
Alex W. Adams

MTS Undergraduate Scholarship

William B. Bartling
Ivan R. Bertaska
Ian T. Hopkins
Vasile Tudoran

Bennett Stedwell
Kyle Manis
Camille Pagniello
Justin Van Emmerick

MTS Two-Year Program Scholarship

Raven Dorr

Paros-Digiquatz Scholarship

Amber Bratcher

Bajus Scholarship

Ashley A. Stoehr

MTS High School Scholarship

Zachary J. Gold
Sarah E. DeLand
Tanya Petach
Kathryn O. Beaumont
Obagaeli Ngene-Igwe
Alex D. Zimmer
Grayson LeCompte
Sara G. Thomas

Newly Formed Student Section at William and Mary Hosts Section's First Event; Exciting Plans Underway for 2012

The MTS Student Section of William and Mary (named the Marine Science Society) kicked off the year with a trip to Yorktown Beach in Yorktown, Virginia. The weather was perfect for beach games and great food, which included a cookout when they arrived back on campus. As a new and still developing campus club, the officers felt that an opportunity for members to socialize and interact together as a team would assist in developing their abilities to plan future events together, including working as a team for possible competition entries. Plans are underway for several activities during the spring term.

This new section was founded in spring 2011 by Haley Garrison (class of 2011), Heather Richardson (2012), and Seth Theuerkauf (2013). The advantage of the leadership spanning several graduation years is that it provides continuity during the organization's early years, a lack of which can

cause problems for student sections that experience several founding, active members all graduating together.

Currently the Section has about 20 undergraduate members. They seek to bridge the gap between undergraduate students interested in marine science and technology and the graduate students and professors at the School of Marine Science, within the Virginia Institute of Marine Science (VIMS) of William and Mary. Currently, a number of their Student Section members are involved with research at VIMS that directly utilizes various forms of marine technology.

William and Mary's Student Sec-



From left to right, Zachary Nicholls, Andrew Koons, Heather Richardson, Kyle Belfort, Reed Beverstock and Tess Mackey take a break to enjoy a meal on the beach.

tion holds bi-weekly meetings for all members and coordinates volunteer activities and recreational trips.

See **William & Mary Students** on page 11

MTS Legal Q&A:

In the law on sunken treasures, are finders always keepers?

by Montserrat Gorina-Ysern, Ph.D.
Chair, Marine Law & Policy Committee

In a single word — no. The technologies used in the salvage and recovery of vessels, treasure, artifacts and relics from historic or ancient wrecks have evolved radically in the last forty years. For example, in the 1970s tugs and small survey vessels were used by treasure hunters, complete with propeller wash nozzles or funnel shaped devices on the deck. These hinged devices were lowered and locked over the vessel's propeller to concentrate the wash, and could be angled in order to scour an area of the seafloor to excavate imbedded shipwrecks and treasure for silver and gold. As a result, objects of historical and cultural value were damaged or destroyed (Note 1). Today's technologies include live-imaging, ROVs and robotic manipulators.

In the 1980s, The Columbus-America Discovery Group recovered the largest treasure in American

history — three tons of gold coins and bars sunk in 1857, lying 1.5 miles deep and 160 nm off the South Carolina coast. Litigation stemming from this recovery (Note 2) reinforced the expectation that U.S. courts would protect intellectual property based on personal and economic efforts, and also marine research investment by the salvor who could claim legal possession of objects on the ocean floor through 1) tele-presence (live-imaging through ROVs), and 2) tele-possession (object location and real-time imaging through tele-operated or robotic manipulators with an intent to control the object (Note 3).

However, finders aren't always keepers. U.S. courts consider a wider range of legitimate interests in order to protect third party rights (such as in *El Juno and La Galga*, Note 4). More recently, the Kingdom of Spain brought action against Odyssey Marine Exploration, Inc. before the United States District Court in Tampa, Florida, regarding the *Nuestra*

Senora de las Mercedes. This Spanish Navy Frigate was returning from South America with more than 200 officers, crew and passengers, and exploded and sank in the October 1804 Battle of Cape Saint Mary against Britain. Spain claimed it had never abandoned the wreck. The USDOJ, USDOS and NOAA supported Jim Goold, Counsel at Covington & Burling, who represented

the Kingdom of Spain's claim that the ship and its contents are protected against unauthorized disturbance under the rules of sovereign immunity. Goold argued these same rules would have protected the USS *Arizona* in Pearl Harbor, and that *Odyssey* should return the 500,000 silver coin pieces and other artifacts removed from the wreck in 2007.

In 2009, the District Court affirmed the Spanish claim and on Sept. 21, 2011 the 11th Circuit Court of Appeals affirmed the earlier decision. (Note 5). *Odyssey* has asked for a full hearing before the 11th Circuit Court of Appeals. As well, the Government of Peru claims that whatever the *Nuestra Senora de las Mercedes* carried on board had been stolen from Peru by the Spaniards.

Finders keepers?

For additional information please see:

Note 1. Jim Shirley, *Underwater Cultural Heritage*, Marine News (Aug. 2011) at 16. See also *Convention on the Protection of the Underwater Cultural Heritage* (2001), <http://unesdoc.unesco.org/images/0012/001260/126065e.pdf>; and <http://www.unesco.org/new/en/culture/themes/underwater-cultural-heritage/>

Note 2. *The Columbus-America Discovery Group v. the Unidentified Wrecked and Abandoned Sailing Vessel*, etc. Civil Action 87-363-N 1987-89, U.S. District Court in Norfolk, VA, U.S. Circuit Court of Appeals (1987-89).

Note 3. Montserrat Gorina-Ysern, *An International Regime for Marine Scientific Research* (2004) at 454, available at <http://www.brillusa.com/international-regime-marine-scientific-research>.

Note 4. *International Registry of Sunken Ships*, <http://www.shipwreckregistry.com/index12.htm>

Note 5. <http://www.businessweek.com/ap/financialnews/D9PTIS1O1.htm>; see also *Odyssey Marine Exploration, Inc. v. Unidentified, Shipwrecked Vessel*, 675 F.Supp.2d 1126 (M.D.Fla. 2009); <http://www.ca11.uscourts.gov/opinions/ops/201010269.pdf>; *United States Court of Appeals for the Eleventh Circuit* <http://www.ca11.uscourts.gov/opinions/ops/201010269.pdf>; and *ABA Journal* http://www.abajournal.com/mobile/comments/11th_circuit_nixes_finders_keepers_says_massive_treasure_trove_from_1804/

Predocutorial Research Fellowships in

OCEAN ENGINEERING AND INSTRUMENTATION

The Link Foundation will award several \$25,000 predocutorial research fellowships per year to doctoral candidates enrolled in academic institutions in either the United States or Canada.

The application, in the form of a research proposal, must be received by January 17, 2011.



For additional information, please contact:

Dr. George A. Maul, Administrator
Ocean Engineering and Instrumentation Fellowship
Florida Institute of Technology
Department of Marine and Environmental Systems
150 West University Boulevard
Melbourne, Florida 32901 USA
(321) 674-7453

EN-311-410

<http://coe.fit.edu/dmes/link> • gmaul@fit.edu

MTS Section Spotlight: Active and Vibrant Houston

Formed in the late 1960s, MTS' Houston Section is one of the Society's largest sections, with over 800 members.

The Section hosts a variety of programs throughout the year. These include monthly luncheon presentations, typically attended by between 200 and 300 offshore professionals. Luncheons generally feature presentations by major operators on ground-breaking offshore projects, developments and new technology innovation within the offshore industry.

The Section also hosts the Offshore Outlook Conference in the Spring, a half day symposium at which industry leaders discuss the industry outlook.

Fund-raiser events are scheduled throughout the year and include the Sporting Clays Tournament, an event which has grown dramatically over the past five years and which raised almost \$100,000 in 2011; the Annual Golf Tournament held in the summer; and an Annual Barbecue held in October. Proceeds from these events support the Section's generous and expanding scholarship program.

This year's BBQ had a record number of attendees (nearly 600) and included students from Texas A&M, University of Houston and Conco Ranch High School. Nearly \$50,000 (net) was earned towards next year's scholarships. The event was hosted by Thrustmaster, who were commended for their outstanding event.

Through their scholarship program, the Houston Section supports several student sections, including Texas



BBQ cooks are Terry Dailey from Schlumberger, Rick Cisneros and Chuck Richards from CA Richards. Melissa Wood of Fugro GeoServices, Inc. to the right presenting the cooks with a custom suede MTS apron to remember the event by and at the far right is Silent Auction Chair Wendy Post.

A&M University at College Station and Galveston, the University of Houston, and Texas A&M at Corpus Christi. Financial support is also given to students participating in the regional and international MATE competitions to help fund equipment, cover participants' travel expenses, etc. In addition, the Section supports and provides judges for Houston's Annual Science Fair.

2011 Recipients of MTS Scholarships were Gary Liles (Recipient of the MTS Dr. Wayne Ingram Scholarship); Gavin Blockhus (Recipient of the Glen Lochte Scholarship); Nathan Krohn (Recipient of the MTS Charles Richards Sr. Scholarship); Adam Scheidler (Recipient of the MTS Dr. John C. Freeman Scholarship); Tarren Peterson (Recipient of the MTS Chuck Richards Scholarship); and John Houdek (Recipient of the TAMU MTS Endowed Scholarship).

2011 Recipients of the MTS-University of Houston Scholarship were Oscar Hutardo, Adriana Giron, Evelin Giron, Christopher Cardenas, Kathlyn Matzar, Austin Cooper, Gilbert Lopez and Jeffrey Ciabattoni.

2011 Recipients of MTS-Texas A&M Galveston Scholarship were John Smith, Austin Parish, Sharon Progar, Christine Clark, John Paul Schilling and Avery Vaughn.

For more information about the Houston Section and its activities, please visit <http://www.mtshouston.org>.



The nearly 600 Houston Section BBQ attendees also had an opportunity to take part in a program, and visit exhibitors.

Member Company Spotlight: Associació Institut Ictineu, Centre Català de Recerca Submarina in Spain

MTS has a number of international individual members and company members. One company is the non-profit company Institut Ictineu, Centre Català de Recerca Submarina (in English: Ictineu Institute Organisation, Catalan Center for Submarine Research), located in Catalonia, Spain.

Founded in 2005, the group's goal was to promote ocean knowledge and research, and focus national attention on the opportunity for growing underwater technology. Although Spain has the longest coastline in Europe, little attention has been paid to developing marine technology. The Association hopes to change that perspective. In addition, Institut Ictineu is collaborating with MTS and other companies in Spain to develop an MTS chapter in the country.

Within a couple of years a small for-profit company was created by several of the association's founders in response to legal needs within the country to pursue research and development. The company, ICTINEU Submarines SL, is building the ICTINEU 3 manned submersible and construction is nearly finished.

The ICTINEU 3 is a modern and highly competitive manned submersible, conceived as an extremely versatile tool, and capable of being transformed/modified as newer technological solutions and equipment become available and suitable. It was



Pictured above: A front-view of the ICTINEU 3 submersible and large viewing area. Inset: A side view of the same submersible.

designed for a wide range of tasks, from oceanography to archaeology, industry works, filming and photography or even leisure.

Noted Carme Parareda, Secretary of the non-profit Institut Ictineu, "As far as we know this will be the ninth manned submersible in the world in terms of depth capability. It will dive down to 1200m with three people inside (one pilot, two passengers) and the first to be equipped with a big acrylic window (1.5m diameter) under 1000m. Additionally, the company's contribution to underwater

technology is to introduce new constructive materials and develop power systems based on lithium-ion-polymer.

"Unfortunately, the economic crisis in Spain has hit us very hard," said Carme, "We have invested approximately \$2.5 million into the project and the company is currently attempting to raise the last \$300,000."

ICTINEU Submarines SL launched a funding-sponsorship program and has gained the support of individuals and companies. "We continue to look for any group who can sponsor our manned submersible, beginning at the 10,000 EUR (approximately \$13,000 USD) level," explained Carme. "We provide press releases, website exposure, logo placement on the submersible and offer a free dive. This is a great way for a company to promote their international presence."

To learn more about the ICTINEU 3, as well as more about project sponsorship, go to <http://www.ictineu.net/empresa/index.php?lang=en>. For additional information you may contact Carme Parareda at cparareda@ictineu.net.

William & Mary Student Section News

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Additionally, their Student Section also serves as a hub of marine science and technology information, providing members with information about research opportunities, internships, scholarships and other relevant activities. They are also planning a professional lecture series on-campus during

the spring and fall semesters of 2012.

Over the coming year, the Section will work with the Hampton Roads Professional Section of MTS, helping coordinate various aspects of 2012 OCEANS MTS/IEEE Hampton Roads. The conference will be October 14-19, 2012, and is themed "Harnessing the Power of the Ocean."

Marine Technology Society
1100 H Street NW, Suite LL-100
Washington, DC 20005

Address corrections requested



REQUEST FOR PROPOSALS

for

Replacement of South and North Cables and Hydrophone Triplets, Outside Plant and Shore Terminus at the International Monitoring System Hydroacoustic Station HA03, Juan Fernandez Islands, Chile

Project Objectives

The Provisional Technical Secretariat of the Comprehensive Nuclear-Test-Ban Treaty Organization wishes to procure the services of an experienced contractor to design, build, test and install underwater cables and hydrophone triplets for the Hydroacoustic Station HA03 at Juan Fernandez Islands, Chile, to replace existing damaged cable and triplets. The southern and northern hydrophone triplets and parts of their associated trunk cables are to be recovered and replaced by new triplets and cables (~70 km). New terrestrial cables and shore terminus equipment are also to be supplied and installed.

MORE INFORMATION: www.ctbto.org/procurement

DEADLINE FOR PROPOSALS: 1 February 2012

INTERESTED PARTIES can contact: HA03.procurement@ctbto.org