

Successful Cal Maritime Drill Team



Some sixty of the nearly 90 faculty, staff and students who took part in the first-ever "all majors" Crisis Simulation Drill at Cal Maritime April 10. The exercise required students from every academic discipline to work with each other in response to a simulated crisis—in this case a terrorist threat to land and sea-based facilities in the Bay Area. Full story on Pages 2-3.

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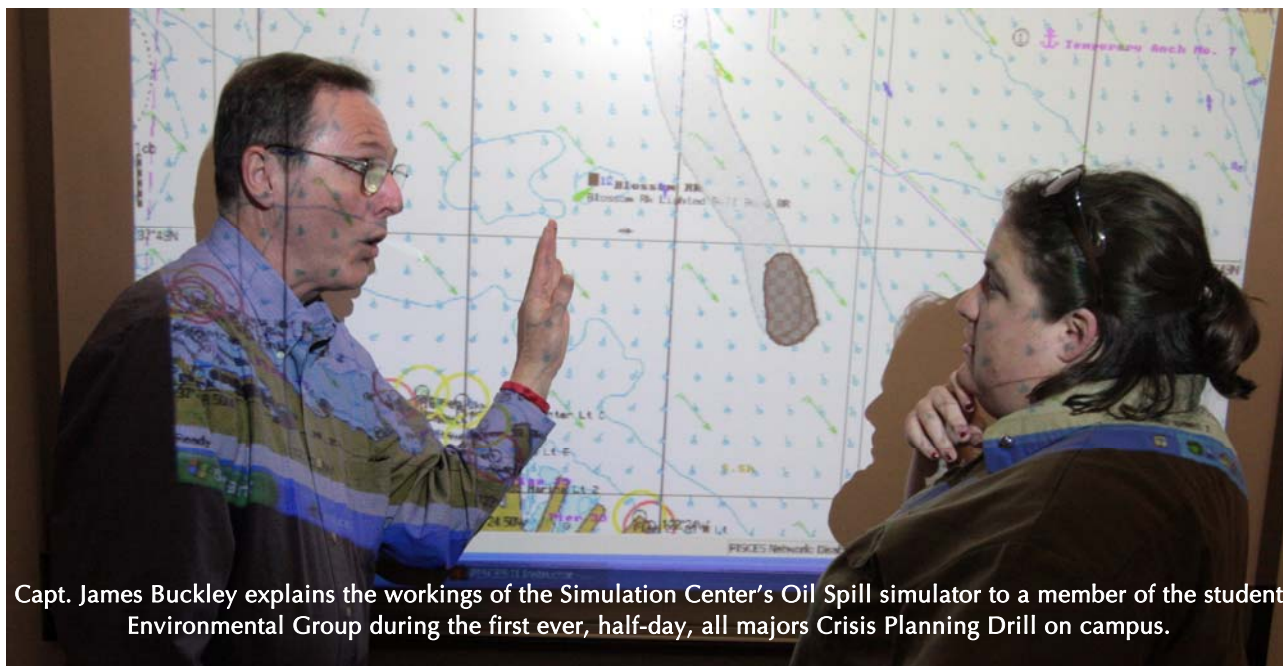
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First-Ever Multi-Major Drill Tests And Educates Cadets

The preparation and planning began in earnest last fall, but all the hard work paid off as nearly 90 students from every one of Cal Maritime's six major programs came together for a half-day crisis response exercise, April 10th in the campus Simulation Center. The unique event was designed to test their skills, their preparation and their ability to communicate and coordinate with classmates across disciplines and lines of responsibility.

The idea of a multi-discipline drill had been discussed amongst campus faculty and senior staff for some time and those discussions intensified with the approaching completion of the new Campus Simulation Center last fall. The scenario for the program was put together by a faculty and staff team that included **Academic Dean Stephen Kreta, Dr. Donna Nincic, Chair of the Department of Maritime Policy and Management, Jim Buckley, interim Director of the Simulation Center, Deck Simulation Manager Mike Noonan, Engineering Simulation Manager Scott Green, and Bill Schmid**, faculty expert in liquefied petroleum gas transportation and handling.

"We saw the Center as an exciting new resource for teaching and learning," Kreta said. "One of our goals was to fully utilize its extensive resources in the exercise. Our final program used all three of our bridge simulators, our **PISCES oil spill simulator**, and the steam engine, liquid cargo and parts of the diesel simulators."



Capt. James Buckley explains the workings of the Simulation Center's Oil Spill simulator to a member of the student Environmental Group during the first ever, half-day, all majors Crisis Planning Drill on campus.

Capt. Buckley said the drill definitely met its goal of increasing interaction and understanding between students from all majors. "It was clear that cadets gained a better appreciation for each other's knowledge, and how deeply inter-linked their skills and knowledge are in the realm of maritime operations, business, policy, environment, law and public understanding. We had non-licensed track majors 'ride along' as observers on the 'ships' to see what licensed cadets were doing and license majors participated in the crisis management center to better understand the work being done by their non-license counterparts." Under the scenario, a small boat loaded with explosives strikes an oil tanker in San Francisco Bay, causing significant but not crippling damage. Later, threats of another incident require the tanker to be moved, in spite of the damage. Reports of toxic gas releases at the Port of Oakland, a fire on Yerba Buena Island and closure of the Bay Bridge added to the confusion and realism of the exercise.

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Deck and Engineering majors “manned” a “tanker, tug, and Coast Guard vessel” as part of the training drill. Business and Global Studies majors were on hand as observers to better understand the work of their colleagues. Participants afterwards praised the drill’s realism, and said they had learned valuable lessons on the critical need for communication and cooperation across disciplines.

Students divided up into functional teams focusing on terrorist intelligence, business and economic impact analysis, environmental monitoring of spilled petroleum, incident response operations, and media relations. Deck and engineering students (all of them participating voluntarily and in large numbers) “operated” the tanker, and a responding tugboat and Coast Guard cutter sent to the scene, and worked to restore the tanker’s engineering functions. The planning team maintained realism by continually feeding new information to each of the student groups, some of it via media relations team taped interviews with everyone from response group members to individuals posing as terrorist representatives. “We had to turn away some of our licensed students this year because of the popularity of this first-ever exercise,” said Green. “Extending future drills to a day or more will clearly provide more opportunities for more students to be part. Students told me this was one of the best learning exercises they had ever had, and added that it required them to use the skills they had learned from books and labs in solving realistic problems and working with fellow students.”

“In a real crisis, initial confusion and the need to coordinate people and resources across multiple disciplines are both major challenges,” planners said. “We were tremendously pleased with the advance work done by students and their response under pressure. They really got into the simulation, responding to each other in their roles, which told us we had created a very realistic exercise.” At a “hotwash” post-drill debriefing, students suggested making such exercises a regular part of the curriculum and extending them to full-day events. All said they learned important lessons about the need for communication and cooperation across disciplines.

Capt. Buckley said the results exceeded his expectations. “Not only did our students perform superbly – adapting to problems as they arose – but the drill gave us a good benchmark for analyzing the quality of our resources for crisis training. We’re giving strong consideration to expanding future drills to eight hours or more to give participants the experience of transferring control from one watch team to another and possibly involving teams on other CSU campuses.”

“This exercise was something unique,” Kreta concluded. “It was made possible by our size, our resources, the skills of our faculty and staff, and our ability to involve every one of our majors. We think it is a positive mechanism to strengthen the sense of teamwork and common purpose we all share as part of the Cal Maritime family. I also want to thank everyone who took part in this event. There was a huge amount of advance planning and coordination required on top of the day-to-day work of campus activities, and the success of the day testifies to the quality of that advance work. It is also a tribute to the vision of the late **Dr. Phil Arms** whose vision helped shape the development of the Center. I only wish he could have been here to witness how well what he helped design has worked in strengthening our core goals of maritime education, training and research.”

Rugby Team Does Cal Maritime Proud!



Cal Maritime men's rugby team finished one of the most exciting seasons in the history of campus athletics this spring, getting to the "Elite eight" in the national rugby **Division II Club Collegiate championships** before losing a heart-breaking game to **Georgetown University**.

Everything about this year's season was breaking new ground and overcoming challenges for a school where, says **Coach Edward Roberts**, nearly four out of every five of his players played rugby for the first time when they came to Cal Maritime.

During the regular season the Keelhaulers compiled an unbeaten **Northern California League** season of 6-0. The team also played Division One teams from **Stanford** and **Berkeley** to challenge themselves and created an overall record of nine wins and three losses (two of them by four points or less) and finished number one in national rankings compiled by *e-rugby News*, the recognized authority on collegiate rugby. It was a Cinderella story.....Cal Maritime, with a student body of 850 against competition that included schools like **San Jose State** (32,000 – CMA 78-5), **U.C. Santa Cruz** (15,000 plus – CMA 70-5) and **U.C. Berkeley** (25,000 undergraduate – UCB 24-3) They won the **Pacific Coast Conference Championships** at Bellingham, WA April 4th and 5th with victories over **Western Oregon** 34-24, and **Utah Valley State** 35-13 (Roberts 100th game as a Cal Maritime coach.)

April 15th was the national championship Sweet 16 in **Sanford, FL**. The first of two games was a 40-26 win over **Loyola Marymount of Los Angeles** to enter the Elite 8. Saturday's match was against **Georgetown University of Washington, D.C.** (enrollment 14,000 plus).

"This was really a great game," Roberts said. "The lead changed hands four times. We took a 10-0 opening lead. At the half Georgetown was ahead 14-10. We moved to 17-14 but they tied it, and with about 20 minutes left, scored what proved to be a winning tally of 20-17." **Georgetown, Middlebury, Wisconsin** and **Miami of Ohio**, competed for the national championship May 2/3 at **Stanford University** in Palo Alto with Middlebury taking the championship over Wisconsin. "We were close to our goal of reaching Stanford," Roberts said. "I am truly proud of what the team accomplished and the support we received from the Athletic Department, **Director Marv Christopher** and his team as well as students and the campus family. Funding from our rugby alumni and some budget magic from President Eisenhardt made possible our previously unscheduled trip to Florida."

Roberts, now completing eight years of coaching at Cal Maritime, six as head coach, said the 2008-09 team will be remembered for putting Cal Maritime Rugby on the National Stage. "We had a very close match against Georgetown and clearly stand in the top eight teams in the nation."

Roberts loses six seniors to graduation but says he has a strong core of freshmen returning and is very hopeful that the team's success and national visibility will give a big boost to recruitment. "I would also encourage anyone who is interested in the sport to come out for tryouts this fall. We've proven you don't have to have a lot of previous experience. Just be willing to learn and really love the competition and being part of a great team."

Campus Power Lab Upgraded With Student Input



Senior cadets from Cal Maritime's Engineering Technology department proudly showed off the fruits of their work over much of the past year – the evolution of two systems which will provide future students new state-of-the-art training and research resources in modern power generation.

Teams of students, each working on a specific phase of the two projects, detailed what they had done, the challenges they overcame and what they learned in the installation of a gas and steam turbine power plant (in picture above) for the cogeneration of mechanical and electrical power and a Selective Catalytic Reduction system to control emissions from a diesel power plant.

Engineering Technology Department Chair Tom Mader said the value of the two systems, if they had been bought commercially, would probably approach a half-million dollars. "Our actual costs have been closer to \$200,000, spent over the past several years with support from the Office of the President and Academic Dean Stephen Kreta, and direct gifts, partial grants and in-kind contributions from industry and friends of the Academy. Couple those with the work done by our students in designing and assembling many of the elements of these two systems, and we now have two very modern and flexible tools for teaching, learning and research in engineering and power generation.

They are ideally suited to provide practical training in plant operations and procedures, fluid dynamics and thermodynamics as well as skills in engineering systems design and component installation." Mader added.

Power Lab Installation—Continued

The gas and steam turbine co-generation system, installed in the Technology Center next to the Welding Lab, uses a gas turbine to generate electrical power, and a heat recovery system to generate mechanical power via a steam turbine. Co-generation systems such as this are increasingly common in industry as the drive for energy efficiency intensifies worldwide.



Cleaner engines are another critical focus of modern power generation, particularly diesels, which have been a major source of air pollution due to outputs of fine particulate matter and nitrous oxide. Modern

Catalytic installation components: The orange generator, white diesel with control panel in front. Diesel exhaust leads to catalytic converter right rear. Ammonia is fed into the exhaust from the tall cabinet left rear as part of a process which neutralizes harmful nitrous oxide.

diesels overcome many of these problems through the addition of sophisticated computer monitoring and control systems which optimize air and fuel. (See **January, 2009 CURRENTS Page 4/5** story regarding the upgrading of campus workboats with such engines and their improved fuel efficiency and clean burning.)

For older diesels used in fixed locations, catalytic systems can be installed to sharply reduce emissions and the new Cal Maritime platform, a **Selective Catalytic Reduction** system tied to a 150 KW Caterpillar diesel generator, provides a good example. Exhaust gasses from the engine are fed through the cadet-designed and installed discharge system and through a catalytic converter. On the way, ammonia gas is injected into the flow and that, coupled with the heat of the exhaust and the catalyst, produces a chemical reaction which converts the polluting nitrous oxide in the flow to harmless nitrogen and water.

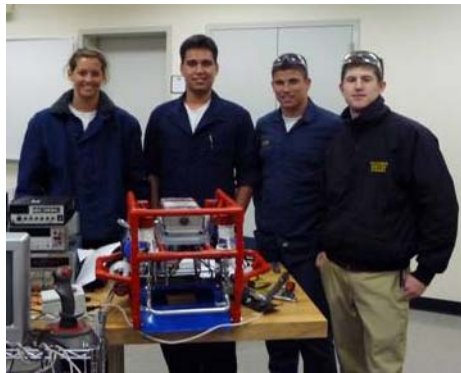
Cadets said they learned important facts. Communication and coordination among team members and between various teams is critical to overall success. Plans by one group to connect piping or hook up an electrical circuit often had to wait until another group could finalize such decisions as the location of various system components. Team members also learned that great care had to be taken in ordering parts to make sure they could actually meet system demands. "Some of the components we used had to be custom built and in other cases, the materials we ordered had to be returned because they weren't the right size or strength to do the job. It is experiences like these that give our students very practical real-life appreciation for the conditions they will find when they go out in the workplace and join teams of fellow employees working together on projects like these."

The two new systems will likely be fully operational before the end of the year, Mader said. Students explained that in some cases the cost of a component exceeded their budget or a particular element was still on back order. But all were clearly enthusiastic about the experiences they had had working on the two systems and the lessons they had learned. Said one student, "The hands on learning, small class sizes, and our ability to work closely with faculty and staff is what makes the Cal Maritime experience so valuable."

Senior Engineering Projects Demonstrated

Each spring at Cal Maritime, Mechanical Engineering seniors are required to make Project presentations to their classmates, professors and friends of Cal Maritime. It's the culmination of over a year of work by the students, each working in 4-5 person teams and focused on designing and building something which tests their skills in engineering, communication and teamwork. Six project teams made presentations in Peachman Auditorium. The projects and team members included:

- **Air Powered Car** - Zachary Denning, Christian Narvaez, Vince Bryant-Teasdale Catherine Strohecker
- **Biodiesel Refinery** - Jonnique Pratt, Freeman Davenport, Reginald Marinas, Matthew Ramos
- **Rowing Simulator** - Christopher Bushaw, Matthew Mossinger, Michael Walker, Daisuke Omi-Freeman
- **Human Powered Hydrofoil** - Joel Henning, Brian Abe, Antoine Sands, Alex Fairchild, Kevin Waisanen
- **Battlebot** - John Lugge, Michael Bellardine, Cory Rossow, Ian Sit



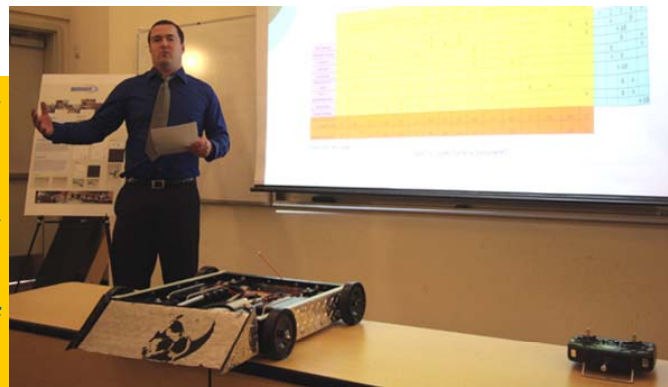
- **Remotely Operated Underwater Vehicle (L)** — Megan Braun, Wes Hamilton, Bobby Rather and Ryan LaPerle

Team members are graded for the quality of their concept design, implementation, decision-making on system components and materials, testing and analysis, and outcomes. Students offered similar stories about what they had learned — the need for communication and cooperation, and sufficient lead time for planning and implementation, and the ability to adapt if an original idea doesn't work or proves too costly or inefficient.

Among those in the audience, observing and asking questions, as he has been for most Senior Project days over the past decade, was **Edward Schwabecher, Director of Flight Sciences for Lockheed Martin Space Systems in Sunnyvale**. Schwabecher has been a member of **Cal Maritime's Industry Advisory Board** since 2000—a group whose work has helped strengthen the quality of the school's Engineering programs.

"I'll be frank — I come here every year looking for good potential candidates," he says. "We have a number of Cal Maritime graduates working for us today at Lockheed, and these Senior Projects provide students some very realistic experiences in just the kinds of work they'll be doing as members of design teams at a company like ours." Schwabecher said when he first joined the advisory board in 2000, the group worked with faculty and engineering educators at UC Davis and UC Berkeley to strengthen curriculum and programs and gain full accreditation. "The program gets stronger every year," he observes. "Your students have skills that will stand them in excellent stead in the workplace. Your 'hands on' teaching approach is very solid."

Cory Rossow explains design considerations for his team's "Battlebot." The joystick-operated device, which will be entered in a "battlebot" competition in San Francisco in June, uses an air-powered front ram wedge which is designed to disable and hopefully overturn competitors, using a low center of gravity and high speed. The team was looking for a combination of power and toughness to withstand the kinds of pounding and impact common in such competitions.



A Million Numbers Later, Julian Rose Gets The Facts



Capt. Marc Bayer (D '82) and Manager of West Coast Shipping Operations for Tesoro Refining of Martinez, joins cadet Julian Rose (MT '10) in examining some of the 360 sheets of historic channel depth data Rose analyzed over a four-month period. The study findings: Channels between San Francisco and Antioch Point, east of the Carquinez Strait, have not been consistently maintained at prescribed depths throughout the time period studied.

When Cal Maritime Marine Transportation major Julian Rose ('10) tells you he spent the last year looking at about a million numbers, he's not exaggerating. He just finished poring through 15 years worth of San Francisco Bay deep draft navigation channel hydrographic surveys gathered from the U.S. Army Corps of Engineers (ACOE) records. He printed 360 individual sheets, and then reviewed and chronicled the depths that covered the North Ship Channel from Angel Island to the San Rafael Bridge, San Pablo Bay's Pinole Shoal Channel and the Bull's Head Channel from the Benicia Bridge to Antioch Point. **His findings proved that the channels had not been consistently maintained at required project depth throughout the fifteen years studied.**

Each sheet is a record of up to sixty "transects" by an ACOE survey vessel -- one pass across the channel -- recording the depth every few feet -- then turning and repeating the process. One transect is a row of numbers showing the depth at mean lower low water (MLLW) at that point in the crossing....scores of measurements for each transect. For Rose, the task was to find the shallowest depth on

each pass and most importantly, note if it was less than 35 feet, the official project depth standard.

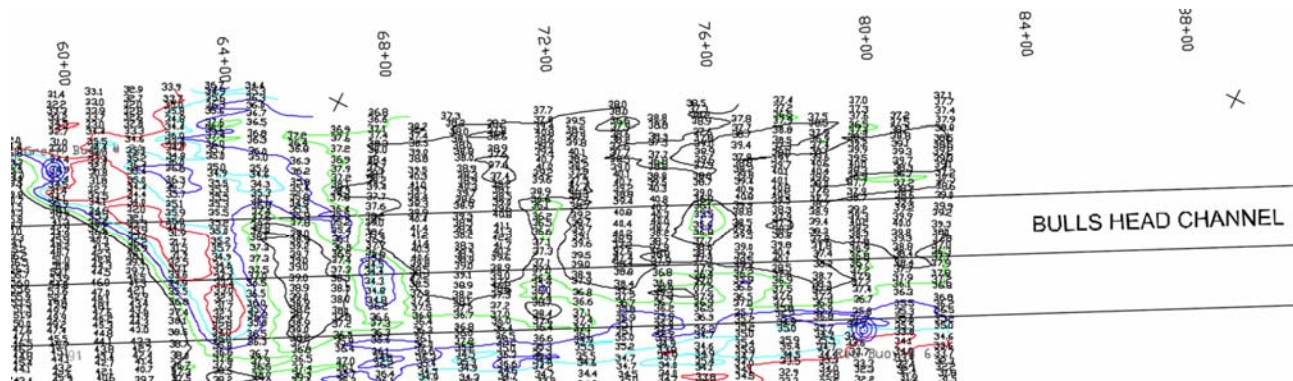
The ACOE is charged with maintaining specified depths in ports, harbors, and shipping channels nationwide. The San Francisco Bay channels are the marine waterway for agricultural products, petroleum, and large-scale project cargoes to and from northern California. Shippers and ship operators rely on the Corps to maintain the channel depths to the project depth of 35'. However in the past 15 years, since the US Navy left Mare Island, it was felt that this depth was not being consistently maintained. Knowing that it would need hard facts to justify additional funding for dredging, the **Western States Petroleum Association (WSPA)** set out to gather the needed data.

Cal Maritime alumni, **Capt. Marc Bayer (D '82), Manager of West Coast Shipping Operations for Tesoro Refining and Marketing** in Martinez and also the chair of the **WSPA Marine Committee**, was the brain child behind the project. Bayer contacted **Cal Maritime's Career Center** looking for a cadet who might be interested in helping and Rose, 26, turned out to be the ideal choice. He's a Navy veteran who returned to Cal Maritime to get his MT degree. His Navy experience as a Quartermaster involved lots of navigation and chart work, so he was comfortable with gathering and organizing the data needed for the study. Analyzing the records took him about four months.

A Million Numbers Later, Julian Rose Gets the Facts

“We laid the data over current marine charts in a PowerPoint animated presentation to show what ships were encountering as they moved through the channels,” Rose explained. “One of the things I found was something many San Francisco Bar Pilots already knew – In some parts of the Pinole Shoal, re-silting often occurs literally within weeks after dredging. Depths can also shift due to seasonal conditions of weather, drought and current flow. This suggests a need for more preventative maintenance dredging in these areas.

“We also found that some areas of the shoal don’t silt up as much as they do in the channel. This means that realigning the channels in some areas to take advantage of naturally deep areas might eliminate the need to dredge as much.” Rose noted that Capt. Sam Pecota, Chair of Cal Maritime’s Marine Transportation Department and himself an experienced dredge captain, has been studying the potential benefits of such a shift. Pecota further believes that Cal Maritime’s new Simulation Center may provide a means to test possible channel locations and their effects before making recommendations for change.



A sample record sheet showing depth recordings along a stretch of the Bull’s Head Channel east of Benicia. Each vertical row of numbers is a sequential listing of the channel depth at that spot as a survey ship crosses from one side of the channel to the other. Cadet Julian Rose studied close to a million such data points on 360 record sheets covering a 15-year period—a task that took him over four months. His research findings are being used to underscore the need for expanded funding for dredging and maintenance of the vital marine highway between San Francisco Bay and inland ports, terminals, shippers and refineries in the heart of northern California.

Rose’s findings were presented first to WSPA, and later to the ACOE, which – after reviewing the data – gave it their full support for additional dredging. In addition the ACOE was so excited by the findings that they requested the formation of a work group to address dredging issues at the **Harbor Safety Committee** level. (The Committee brings together a wide array of Bay Area marine interests to exchange information on a regular basis.)

Bayer said the findings will be an invaluable tool for industry to lobby Washington for additional resources for the ACOE mission. “California’s inland waterways are part of a critical transportation infrastructure for California and the nation. Massive volumes of raw materials and finished products of all kinds are imported and exported to and from manufacturing and production centers across the country to world markets. With this data, we can now clearly demonstrate the need for improved maintenance and dredging. It is also important to note that some of this data may help improve dredging efficiency and cost-effectiveness through possible channel shifts and focus on specific trouble spots.”

Asked how he still had any eyesight left after looking at all those tiny numbers, Rose grins and said, “Well I did use a large magnifying glass, but when I finished the last chart one night, I was really happy it was all over.”

Mooving to Moodle



Vivienne McClendon and Greg Crum explain the workings of *Moodle*, a new learning management software for use by campus faculty to extend learning resources to and communicate with students outside of classroom hours. *Moodle* is also designed to better serve students with physical or learning disabilities and help Cal Maritime meet systemwide CSU standards for accessible technology.

Cal Maritime faculty members are learning a new technology called *Moodle*. It's not an entirely new system, but a replacement for an earlier platform called **WebCT**. Both Moodle and WebCT are commonly known as *Learning Management* or *Course Management* systems explains **Vivienne McClendon, Director of Cal Maritime's Center for Engagement, Teaching and Learning**. She and **Greg Crum, faculty technology liaison for the Information Technology Department**, are working to smooth the transition from the old system to the new with a series of workshops and training sessions for faculty.

"Moodle and its predecessor use technology to 'stretch' the reach of teaching," McClendon says. "They enable instructors to move beyond the time restrictions of classes by continuing communication between teacher and student and providing continual access to everything from PowerPoints to videos, PDFs, images, charts and graphs, word processing files, chat rooms, white boards, RSS feeds, Wikis, polls and quizzes and e-portfolios."

Crum said Moodle was chosen in part because of its ability to meet CSU's **Accessible Technology Initiative (ATI)** standards. ATI covers Web technologies, instructional materials and procurement (analyzing purchases – provide accessibility.) bility standards by setting users with physical and navigate and understand "Screen readers can read images or graphics appear tags' can be read back to Hotlinks can also be identi-



where appropriate -- to assure they "Moodle helps meet these accessi- up standardized page structures so learning impediments can access, information," Crum explains. back text information. When on the screen, specially created 'alt describe the image to the user. fied."

Crum said training focuses on organizing materials so that things like titles, headers, sub-sections, links and alt tags are properly formatted to ATI standards. "It's not that complicated," he says. "It's just a matter of using the proper structure and formats."

Moodle was selected by a Subcommittee of the campus **Information Technology Planning and Advisory Committee**. Every instructional department was represented on the Subcommittee. Participants included McClendon and Crum, **Scott Saarheim, Ben Bolin, Ingrid Rodriguez, Stephen Evans, Julie Chisholm, Mike Holden and Michael Strange, and Kim McNutt** (ex officio).



The **CSU Humboldt** campus had conducted extensive pilot testing of Moodle and competing platforms, and their experiences and input helped with the final selection. Moodle is now being used by **Cal Maritime, Humboldt, Monterey Bay and San Francisco State**.

Scott Saarheim (L) in Marine Transportation has been a beta tester and says he likes Moodle's functionality. "Most of the tools available to you are right on the front page so you don't have to 'drill down' to find them. There is an extensive 'tool kit' you can use for such tasks as posting a PowerPoint or video or adding a link to a document on the Web. For my course on maritime communication, I've created links to YouTube instructional videos and Coast Guard websites. Greg has been very helpful with his training and assistance."

Library faculty Mark Stackpole and Ben Bolin have also been early users as they prepare for this summer's training voyage. Stackpole said Moodle will give cruise cadets access to resources they need for summer sea training. "We've got links to everything from Coast Guard examination study guides, nautical almanacs, tide and current data and charts to informational guides about each of the ports TSGB will be calling this summer.

Professor Tuuli Messer has developed a recommended summer reading list, and we're posting those books in the public domain on the site via Moodle. Learning the new system has been pretty straight forward. It's flexible, and we can clearly 'brand' our library presence to users."

McClendon said initial faculty training has been focused on cruise-related teaching and learning. Additional training sessions are scheduled on campus during faculty work week following graduation. **Mark Oehlman and Barbara Beckmeyer from CSU Monterey Bay's Center for Academic Technologies** will talk about the system and the experiences their campus has had in adapting the new technology. Oehlman and **Kevin Kelly, Online Teaching and Learning Coordinator at San Francisco State** had earlier participated in a pair of forums for the IT Subcommittee during the assessment phase. "Response so far has been vary positive," Crum and McClendon report. "We think the detailed assessment of possible choices undertaken by the IT Subcommittee has resulted in the selection of a system with the tools and flexibility to meet the needs of our faculty and students for years to come."

International Piracy Draws Media Attention to Cal Maritime



The recent pirate attack on a U.S. containership brought a wide range of media attention to Cal Maritime during April. Dr. Donna Nincic, Chair of Maritime Policy and Management, talks with ABC 7—San Francisco reporter Heather Ishimaru. Radio and TV stations, newspapers and magazines called for interviews and background information, and sent reporters to campus. Campus responders included Nincic, Prof. Dan Weinstock, Bosun Peter McGroarty, Capt. Paul Leyda, Simulator operator Jim Haynie, Assistant Prof. Tim Lynch, and Public Relations Director Doug Webster.

Business Students Honored



Top students in Cal Maritime's International Business and Logistic Program were inducted into the Sigma Beta Delta Honor Society during a luncheon in Rizza Auditorium April 10th. Students must rank in the top 20 percent of their junior or senior year class to be eligible for a faculty invitation to membership. Taking part in the luncheon were: (L-R) Academic Dean Stephen Kreta, juniors Lila Schwartzbach, Thomas Sweeney, and Valerie Potts, senior Kevin Hirsh, and junior Michael Schwab, Prof. Robert Neumann, Dr. Donna Nincic, Chair of the Department of Maritime Policy and Management, Associate Professor Dr. Christopher Clott, Prof. Harry Portolos and Dr. Bruce Hartman.

President's and Dean's List Scholars for Fall '08 Honored

Each semester, students are honored for academic excellence through the President's and Dean's List awards. To qualify, students must maintain a 3.75 or 3.25 Grade Point Average respectively, with at least 12 units, no grades below a C and no demerits. Winners and number of semesters earned.

PRESIDENT'S LIST

Division 1

Christian Biehl (7)
 Jeffrey Blais (3)
 Charles Heinbockel (1)
 Valerie Holl-McGowan (3)
 Jay Janicki (1)
 Alexander Masucci (1)
 Kevin Mehrer (7)
 Craig Newton (1)
 Tybur Reed (1)

Division 2

Gary Borrilez (1)
 David Callison (2)
 Joseph Doyle (5)
 Dane Goddard (1)
 Colby Grobschmit (1)
 Nicholas Hathaway (1)
 Logan Higgs (2)
 Adrian Isenhour (3)
 Carolyn Jimenez (1)
 Chelsea Martin (1)
 Axel Moore (1)
 Daniel Park (2)
 Julian Rose (2)
 Jillian Ross (1)
 Bryan Shumway (1)
 Stephanie Swanson (1)
 Samuel Thompson (5)
 Kyle Wagener (1)
 Kevin Waisanen (7)

Division 3

Christopher Bushaw (7)
 Trevor Davis court (1)
 Nevin Garcia (1)
 Tucker Hodges (1)
 Allison Jolls (5)
 John Kinney III (1)
 Stephen Lang (1)
 Zachary Lowe (1)
 Evan Lundstrom (2)
 Melanie Mariotti (3)
 Megan McDonald (1)
 Cooper Palfini (5)
 Brian Ross (1)
 Macklin Sandison (2)
 Marisa Why (1)

Division 4

Ramsey Brown (3)
 Kyle Chernoff (2)
 Vincent Greco (1)
 James Kaufman (1)
 Garth Leavens (1)
 Aaron Mackie 2)

Vicenzo Napoles (1)
 Michael Petrellese (5)

Division 5

Ben Ajax (3)
 Thomas Ballard (1)
 Kshamaa Berg (1)
 Jasmine Gonzalez (1)
 Karl Hasche-Kluender (1)
 Joel Henning (5)
 Michael Holliday (3)
 Paige Johnston (4)
 Michael Kim (1)
 Devon Krakowski (4)
 Todd Michel (3)
 Russell Reed (2)
 Lucas Shuler (3)
 Timothy Tygielski (2)
 Eric Weber (5)

Division 6

Jason Dobbins (1)
 Dustin Hansrote (5)
 Kevin Hirsh (2)
 Andrew Johnson (2)
 Maxine Kantor (3)
 Michael Schwab (3)
 Lila Schwarzbach (1)
 Thomas Sweeney (1)

DEAN'S LIST

Brian Abe (4)
 Joseph Accinelli (1)
 Mark Ajemian (2)
 Will Akers (1)
 Jeremy Apple (3)
 Jennifer Baker (1)
 Sean Baptista (2)
 Michael Bardoutsos (1)
 Keith Becker (2)
 Robert Belfield (1)
 Chandler Bennett (1)
 David Bennett (3)
 Gregory Bennett (1)
 Christopher Beuret (2)
 Shireen Blau (1)
 Kortney Bolton (1)
 Tosca Bonardi (1)
 Kenneth Boothby (6)
 Devon Bray (3)
 Samuel Brown (1)
 Clayton Busenga (2)
 Damien Casken (2)
 Eugene Chae (2)
 Shing Cheung (1)
 Michael Church (1)
 Stephen Clearwater (3)
 Nicholas Corwin (1)
 Rachel Crowe (4)
 Matthew DeWitte (1)
 George Dick (1)
 Michael Diddams (1)
 Jessica Dillman (1)
 Kalisha Donnelly (3)
 Peter Dorrance (2)
 Ryan Drewry (2)
 Craig Dull (1)
 Harrison Eide (1)
 Michael Epperson (1)
 Jade Evans (4)
 Jack Ferguson (1)
 Joel Fetherlin (2)
 Patricia Figueroa (1)
 Elisa Finan (2)
 Mathurin Fogg (1)
 Branden Forst (1)
 Daniel Foss (1)
 Alvin Garcia (2)
 Kellen Garey (2)
 Erik Glaser (1)
 Thomas Golay (1)
 Michael Grace (1)
 Natalie Gross (3)
 Matthew Gulcher (1)
 Seamus Gunn (2)
 Tyler Hayes (1)
 Joshua Heffner (3)
 Ryan Hernandez (2)
 Brian Higgins (1)
 Kyle Hirsh (4)
 Collin Hodgson (2)
 Robert Horn II (4)
 Alexander Huber-Walker (2)
 Brandon Jernigan (2)
 Michelle Jimenez (1)
 Craig Johnson (1)
 Jennifer Kakacek (3)
 Drue Kasper (4)
 Greg Kemper (1)
 Roy Kim (1)
 Zachary Kinman (1)
 Linsey Knight (3)
 Katherine Knox (1)
 Garrett Laudenback (2)
 Jacob Lehner (1)
 Christopher Lemon (4)
 Kyle Lewis (1)
 Samatha Ligne (1)
 Ian Lim (2)
 Caleb Lush (2)
 Joseph Mahach (4)
 Nicholas Marr (1)
 William Martin (1)
 David McAloney (1)
 Collin McCarthy (1)
 Taylor McClung (2)

Kevin McCown (1)
 Michelle McGrath (1)
 Craig McPherson (3)
 Alexander Migliorini (3)
 Rodney Mohler (4)
 Daniel Moultrie (2)
 Daniel Muehlbauer (1)
 Joseph Noll (2)
 Breana Ogden (5)
 Martin O'Hagan (3)
 Troy Oudin (1)
 Steven Ouimet (3)
 James Pascucci (2)
 Maxwell Paulus (4)
 Shaina Pearl (2)
 Robert Pinder (3)
 Matthew Pinhey (1)
 Raymond Ponce (3)
 Valerie Potts (3)
 Robert Prouix (1)
 Leowen Punzalan (1)
 Hannah Reeves (4)
 Darius Rogers (2)
 Brian Rose (2)
 Coleman Rosenberg (1)
 Samuel Rouse (2)
 Sean Sabeh (2)
 Quintin Salazar (1)
 Donald Salter (2)
 George Schneider V (2)
 Ian Sit (4)
 Charles Skeet (1)
 Andrew Staley (1)
 Matthew Steffy (1)
 Daniel Straatsma (5)
 Mark Sturzbecher (1)
 Nicole Suraci (2)
 Christian Suric (4)
 Kristen Swader (3)
 Joseph Tapanes (1)
 Anna Thompson (3)
 John Thurlo (3)
 Keniya Thurman (1)
 Paula Tuziak (1)
 Cory Utter (2)
 Justin Valentine (3)
 Natalia Verance (3)
 Brandon Wahlers (3)
 Michael C Walker (5)
 Michael T Walker (3)
 Andrew Walton (5)
 Andrew Warren (3)
 Chad Washburn (2)
 Nakia Watson (2)
 Lauren Westbrook (2)
 Jessica Wood (4)
 David Ziegler (1)

Banquet Honors Outstanding Cal Maritime Athletes



The Cal Maritime Athletic Department held its annual Awards Night Tuesday, April 7th to honor students for their achievements in an array of campus athletics. Being both an athlete and a scholar is especially challenging, given the University's demanding class, lab, and study schedules, and yet some students manage to do it, and in a few cases take part in more than one sport during the year. Awards this year went to:

Basketball—Men/Women: *MVP:* Andy Medeiros and Taylor Himmelspach/*Coach's Award:* Cesar Gerardo and Lauren Westbrook

Crew — Men/Women: *MVP:* Kalisha Donnelly and Matt Mossinger/*Coach's Award Men:* Robert Lindsay

Golf — Men: *MVP:* Dave Siggins/*Coach's Award:* Drue Kasper

Rugby—Men: *MVP:* Rufus Walker/*Coach's Award:* Grant Ginilo/*John Machado Defensive Award:* Kevin Hirsh

Offshore Sailing: *MVP:* Sebastien Laleau

Dinghy Sailing: *MV Skipper:* Paige Johnston/*MV Crew:* Jessica Schember

Soccer — Men: *MVP:* Colin McCarthy/*Coach's Award:* Brian Abe

Water Polo—Men: *MVP:* Ben Gomez/*Coach's Award:* Sean McCoy

Water Polo—Women: *MVP:* Megan Braun/*Coach's Award:* Kristen Swader

Best Novice: Mike Catchings and Brittany Wilson



Athlete of the Year: Kristin Swader (R) with Water Polo teammate and MVP Megan Braun

Photos: Photos of the banquet and award winners can be found at: www.cmaathletics.org/index.htm



Athletic Director Marv Christopher with Outstanding Scholar/Athlete Beth Runciman

Campus Propeller Club Hosts Dinner

The California Maritime Academy's **Student Propeller Club** has reorganized and been very active during the current school year. The group hosted their **2nd Annual Dockside Dinner** April 17th at Zio Fraedo's Restaurant in Vallejo. Club President, **Tosca Bonardi** thanked outgoing Treasurer, **Beth Runciman**, and Vice President, **Dustin Hansrote**. **Emily Arquette** will be the new Treasurer and Vice President is **Bobby Hart**.

Cameron Clark, '04, currently works for **Hornblower Cruises** as the **Director of Maritime Affairs and Events**. He discussed Hornblower's hybrid ferry and the company's plans for another hybrid ferry as well as the benefits and environmental factors involved with hybrid boats. Also on hand was **Gary Gregory** with **California's State Lands Commission**, and President of the **Los Angeles/Long Beach Propeller Club**. **Monika Wegner**, **US Pacific Coast Regional Vice President** and member of the **LA/LB club** presented Cal Maritime's Club a banner to represent its official student port status in the United States Propeller Club.

"This year, the club doubled its membership, and hosted several maritime-related events and field trips for students on campus, making it of the most active clubs on campus," Bonardi noted. "We want the club to be a learning experience and a useful resource for networking within the maritime community."



Incoming Cal Maritime Propeller Club Officers—Treasurer Emily Arquette (L) and President Tosca Bonardi.



Tosca Bonardi looks at the new campus Propeller Club banner presented by LA/Long Beach Club members Gary Gregory (L) and Monika Wegner (R)

Faculty Team Triumphs Over Cadets in Annual Softball Game



It was the annual clash of the athletic titans as the faculty team (L) did battle with an overly confident student lineup. The score itself is already forgotten, but the faculty prevailed, three hamstrings to two.

On the Waterfront....



CMA hosted a US SAILING-sanctioned *Safety at Sea Seminar* on April 11th. Participants heard from professionals in the sailing industry, and got to test out their personal floatation devices and get into an eight-person life raft in the Cal Maritime Pool. The seminar is a requirement for offshore racers sailing down the coast and to Hawaii. The USCG also provided a helicopter demonstration off the Cal Maritime waterfront.

Sailing News



Cal Maritime's sailing team members practiced their dinghy skills recently on a sunny afternoon at Morrow Cove.

Pacific Coast Championships: Cal Maritime & UC Berkeley hosted the PCCs on April 10th at the **Treasure Island Sailing Center**. Seven teams from California and Hawaii completed for the chance to compete in the **College Nationals Team Race Championship** here on May 29-31st. Cal Maritime made it to the final four but Stanford, who dominated all day, won the Nationals berth.

Team racing is a unique form of college sailing in which two schools, each with three boats, face off against each other. The rules allow interference which makes for exciting mark roundings. The race is umpired, so fouls are called on the water and penalties assessed when appropriate. Serving as Chief Umpire for the PCCs was **Cal Maritime Sailing Program Director Charlie Arms Cartee, a certified National Umpire**. Arms Cartee is also **co-chair of the Team Race Nationals Committee** and appreciated having a dry run to see where improvement is needed. "We would love to get some Bay Area alumni out to help with the upcoming Nationals event" Arms Cartee said. Those interested should contact the Sailing Office at (707) 654-1257 or carms@csum.edu

Pacific Coast Dinghy Coed Championship Regatta: The Keelhaulers did well on the San Francisco waterfront April 11 and 12 in windy conditions. **Senior Paige Johnston** with freshman crew **Jessica Schember** placed 2nd in the Varsity A division while **Freshman Sean Kelly**, sailing with crews **Nevin Garcia** and **Kayla D'ambrosi**, sailed well in the B division. The top four teams, **Stanford, Univ. Hawaii, UC Santa Barbara** and **Cal Maritime**, went on to the Semi-finals in Boston. Due to commencement and cruise conflicts, the traveling team was made up of Junior **Sebastian Leleau**, **Sophomores Tyler Wolk & John Gray** and **Freshman Kayla D'ambrosi**. There are two semi-final fleets of 18 teams. The top nine from each fleet will come to San Francisco for the Finals on June 1-3 hosted by Stanford. Special thanks to **alumni Kevin Garnier '91, Jim Morgan '76, and Mike Loesch '02** for their generous support in helping send the team to the East Coast.



Command Inspection



It's one of those events that makes up the cycle of academics and leadership at Cal Maritime—the Command Inspection, this time in “salt and peppers.” Everything needs to be in place, compliant with regulations, polished as appropriate and ready for close scrutiny by the faculty. The cadet corps, looking sharp on a bright sunny day on the campus Quadrangle.

Michael Kazek of the Engineering Technology faculty, (facing camera center) himself a Coast Guard veteran, and Bosun Peter McGroarty (below left) inspect students during the special formation.



Extended Learning Expands Course Offerings

Cal Maritime's Department of **Special Projects and Extended Learning** has recently added an online course on **Maritime Security Awareness** and received authorization to deliver two other classroom courses for **Vessel Security Officers** and for **First Responders** respectively.

- A certificated course in *Maritime Security Awareness* is now being offered online for workers in the maritime environment. Federal regulations require that regulated vessel and facility owners and operators provide documented Maritime Security training for "other personnel" who routinely have access to, and perform business operations inside, the controlled security perimeter of such facilities. This includes administrative and management personnel, vendors, truck drivers and service providers. The course can generally be completed in 2-4 hours. Online delivery provides flexible access for workers who need the training but have busy work schedules. Those who successfully complete the course receive a Cal Maritime certificate of completion and records of certification are maintained by the school.
- The U.S. Coast Guard National Maritime Center, through Det Norske Veritas, has approved a *Vessel Security Officer Refresher Course* developed by Cal Maritime. It provides refresher curriculum for maritime security personnel and is designed to facilitate the transition to mandatory USCG training for Vessel Security Officers. As of July, licensed mariners designated as VSOs have to have passed an approved course, or taken an approved Refresher course and worked as a VSO or taken the VSO course.

The **California Commission on Police Officer Standards and Training (CA POST)** has certified Cal Maritime's *First Responder Operational Maritime Security (FROMS)* course for Continuing Professional Training (CPT) credit. FROMS focuses on training first responders – police, fire and emergency personnel – as to the unique issues and conditions they may face when responding to incidents occurring in a maritime environment within their jurisdiction. CA POST certification credits are used in evaluations of job performance, compensation, promotion and currency of training reviews.

Detailed information about these courses and about all of the courses offered by Cal Maritime's Extended Learning division can be obtained online at www.maritime-education.com or by contacting Veronica Boe at 707-654-1156, or vboe@csum.edu.

Jonathan Fischer Honored for Teaching Excellence



Jonathan Fischer, (L) Assistant Professor in the Department of Engineering Technology, is the 11th recipient of the Richard W. Fish Award given to a member of the Cal Maritime faculty demonstrating a noteworthy commitment to excellence in teaching. The award was created by Dr. Jim Wheeler (R) of the Math and Science Department in the memory of Dr. Richard Fish, CSU Sacramento Professor of Organic Chemistry. Past recipients of the award have included Lloyd Kitazono, Dr. Bunny Paine-Clemes, Tom Mader, Dr. Tom Nordenholz, Rob Jackson, Dr. Steve Pronchick, Dr. Julie Chisholm, Dr. Timothy Lynch, Bill Schmid and Dr. Graham Benton.

Faculty/Staff Milestones



Interim Simulator Director Dr. James Buckley (R) presented a paper, written in collaboration with Cal Maritime Marine Transportation Chair Sam Pecota, on *Practice-Based Rules of the Road Instruction: Exploiting New Simulation Technologies*, at the Maritime Education Summit in Massachusetts April 15-17. Prof. Pecota was in Barcelona, Spain for the 4th International Conference on Maritime Transport to deliver a presentation of a second joint paper with nearly the same name, *Practice-Based Learning: Exploiting New Technologies*. Despite the similarity in titles, the second paper focuses on navigation training rather than rules. Both are

based on last year's Simulation Studies made possible through a Mission Achievement Grant. The studies explore the early use of simulation in Marine Transportation curriculum. A Buckley/Pecota abstract for a third paper *Training Paradigm Assisted Accidents: Are We Setting Our Students Up For Failure?*, has been accepted for presentation at this year's IAMU conference in St. Petersburg, Russia.

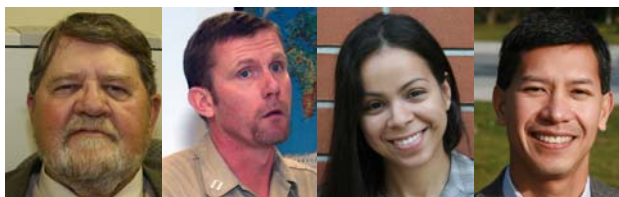
Chris Clott – International Business and Logistics (March, 09 CURRENTS Page 5/6) presented a paper entitled *What Now? The Skill Sets Necessary for the Next Generation of Maritime Industry Professionals* at the Maritime Education Summit.



Mindy Drake received a Faculty Development Award to underwrite her presentation at the Maritime Education Summit. Additional Faculty Awards are listed on the next page.

Also at the Summit, Cal Maritime Librarians Ben Bolin (R) and Mindy Drake presented a lecture entitled *Information Fluency Curriculum Maps for Maritime Disciplines*. Information fluency knowledge and skills are sought after in graduates of both license and non-license track disciplines. Bolin, Information Fluency Librarian and Drake, IFP Coordinator shared their methods and experiences in using standards to develop information fluency curriculum maps. "We use standards established by the Association of College and Research Libraries," Bolin said. "We want to ensure that students have opportunities to develop skills and knowledge to meet those standards within their courses of study." Curriculum mapping identifies where in the curriculum specific information fluency standards can be taught and learned. "One key, adds Drake, "is to blend this into courses without overburdening students, faculty, or course." Cal Maritime librarians work with faculty and others to create documents that help assess student's information access, evaluation, management, and usage skills, and provide documentation for campus and program accreditation.

Faculty/Staff Milestones—Continued



Lou McDermott (MPM), President's Council; Scott Saarheim (MT), Council for Affirmative Action; Ingrid Rodriguez (M/S), Latino/Latina Caucus; and Lui Hebron (MPM), Asian/Pacific Islander Caucus represented Cal Maritime at the 70th Annual Meeting of the **California Faculty Association** in Sacramento 3-5 April 2009.

AWARDS AND GRANTS

Steve Browne—*President's Mission Achievement Grant and Faculty Development Award (FDA)* totaling \$3,000 to present a paper on *ECDIS and Error Trapping: A Bridge Simulation Experiment* at the *International Conference on Marine Simulation and Ship Maneuverability Forum* in Panama City, Panama in August,



Scott Green—\$1,000 FDA to present a paper on *Role Playing in Engine Simulation – Deck/Engine Reality Interface OICEW Training Enhancement* at the *2009 Maritime Education Summit*.

Mindy Drake – FDA to attend and give a presentation at the *2009 Maritime Education Summit* in Mass. Maritime Academy. (See previous page.)



Tim Lynch – FDA to participate in the annual conference of the *North American Society of Oceanic Historians* held on campus, May 14-17 (*April 09 CURRENTS*)

Jennifer Metz – FDA to participate as a panel chair at the annual conference of the *North American Society of Oceanic Historians*, May 14-17



Rich Muller and Jesse Cartee – *Faculty Development Award and Drahos Memorial Award* to participate in the recent *Alaska Marine Safety Education Association Marine Safety Instructor Training class*.

Tony Snell – *Chancellor's Office Research, Scholarship and Creative Activity Mini-Grant* to develop a lab manual for the Electro-mechanical Machine class and write several articles on the mathematical modeling of electric motors this summer



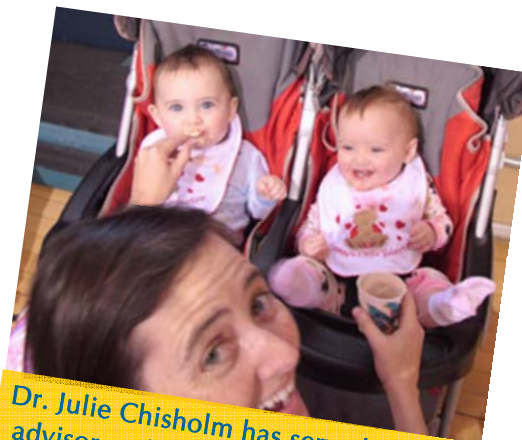
Cynthia Trevisan - *Chancellor's Office Research, Scholarship and Creative Activity Mini-Grant* to establish a summer research program at the Academy this summer on greenhouse gases; this program will initiate a new collaboration with the **Lawrence Berkeley National Laboratory**.

Third Annual Asian/Pacific Island Campus Luau

Cal Maritime's Asian/Pacific-Islander Club held its 3rd annual campus luau, Wed. April 8th in the campus gymnasium. Faculty, students and staff stopped by for a variety of Pacific Rim dishes including ono kalua pork, prepared by the campus dining hall. A luau tradition was continued as the family of cadet Michael Kim (MET '11) had some of their famous Hawaiian ice cream flown in. Two bands provided authentic music of Hawaii and Oceania.



Students, faculty and staff lined up early to sample a variety of island foods.



Dr. Julie Chisholm has served as club advisor and helps organize the luau. She brought her twin this year and said, once you have twins, organizing a luau is a snap.

Cal Maritime Helps Organize May Maritime Symposium

The California Maritime Academy is helping plan a major seminar May 12-14 in Sacramento. The *California Maritime Leadership Symposium* is organized by The California Association of Port Authorities (CAPA), California Marine Affairs and Navigation Conference (CMANC), California Marine & Intermodal Transportation System Advisory Council (CALMITSAC), The Harbor Association of Industry and Commerce, the Propeller Club of Los Angeles/Long Beach as well as Cal Maritime. The annual event is designed to focus attention on the critical role of California's maritime trade and transportation industry. This year, the focus is on ports and harbors: the challenges they face; the initiatives they have taken to be good environmental citizens; and how they are preparing for future challenges. A detailed program overview and online registration can be found at www.cmanc.com/web/upme.htm under *Summer Meeting/Sacramento May 12-14*

Assisting with the planning efforts are Cal Maritime Director of Maritime Security Bruce Clark and Veronica Boe of Sponsored Projects and Extended Learning, Presidential consultant Lee Kerschner and Public Relations Director Doug Webster. Cal Maritime's presence at the event will include displays and literature about the school and its role in education in the vital trade and transportation sector. Plans call for cadet representatives to attend as well. Campus participation in the Symposium reflects Cal Maritime's ongoing mission to expand awareness of the University and its programs and to educate the public on vital issues of policy and planning relating to trade and transportation

Say Cheese.....(sy Eggs) - It's Finals Feast Time Again



Assistant Food Services Director Mark Cosca guides Cecelia Santos of Admissions in the fine art of bacon mass production.

Jim Gutierrez ladles up the tater tots (R) as (L-R) Dave Covell, Jeff Ward and Bob Stewart offer large amounts of advice but very little in the way of assistance....at least at this stage of the evening.

Bobbie Solveson (below) is the resident staff expert on great pancakes and she's at the griddle most every Final's Feast churning them out for hungry cadets.

It's the end of another semester,. Cadets are up late and studying for exams, and the campus tradition at the end of each semester is **Finals Feast**, a late-evening dining hall feed of eggs, potatoes, bacon, sausage and/or pancakes, cooked and served by volunteer members of the campus faculty and staff under the guidance of **Assistant Food Service Director Mark Costa**. The latest feast was held Thursday, April 23rd. Residence Life also coordinated some music and bingo and some nice cheesy prizes to go along with the cheesy eggs and bacon. It's a nice break from the hard work of preparing for those dreaded finals. Participants included **David Ward, Cecilia Santos, Jim Gutierrez, Bobbie Solveson, Bob Stewart, Jeff Ward, Dave Covell** and **Doug Webster**.



Dave Covell replenishes Bob Stewart's flapjack supplies on the serving line.

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Whenever we can, we're happy to photograph events for inclusion in *CURRENTS*. Please give us as much advance notice as you can, including information about the event, date and location.

The latest issues of *CURRENTS* and *Cal Maritime* magazine are hot-linked from the home page of the Cal Maritime website (www.Csum.edu). Back issues can be found by clicking on the NEWS hotlink on the left side of the home page and following links to *CURRENTS* and *Cal Maritime* archives.

WE'RE ON THE WEB

WWW.CSUM.EDU



Cal Maritime Calendar of Events

May 12-14	<i>Maritime Leadership Symposium (See Page 22)</i>
May 14-17	<i>National Maritime Historians Joint Conference (See April CURRENTS)</i>
May 18-21	<i>TSGB Calls Balboa, Panama</i>
May 21	CMA Alumni/SF Society of Port Engineers Dinner—Spenger's of Berkeley. \$40.00 per person. Bob Piazza (707) 939-3320/rwpiazza@comcast.net OR Brian Maxwell, (925) 454-8929/brian.jan.maxwell@gmail.com to register
May 28	<i>Fourth Thursdays for CMA Alumni (visit www.csum.edu/alumni for locations) 5:30 p.m.</i>
May 31-June 3	<i>TSGB Calls Valparaiso, Chile</i>
June 10-13	<i>TSGB Calls Guayaquil, Ecuador</i>
June 21-24	<i>TSGB Calls Puerto Vallarta, Mexico</i>
June 25	<i>Fourth Thursdays for CMA Alumni (visit www.csum.edu/alumni for locations) 5:30 p.m.</i>
June 30—July 5	<i>TSGB Calls Long Beach—Cruise Changeover</i>
July 1	<i>Long Beach Alumni/Friends Reception Aboard TSGB—5-7 p.m.</i> \$25.00 per person includes wine and hors d'oeuvres. Buy tickets online at http://alumni.csum.edu
July 5	<i>TSGB Starts Second Cruise</i>
July 18-21	<i>TSGB Balboa, Panama</i>
July 23	<i>Fourth Thursdays for CMA Alumni (visit www.csum.edu/alumni for locations) 5:30 p.m.</i>
July 31—August 3	<i>TSGB Valparaiso, Chile</i>
Aug 10—13	<i>TSGB Guayaquil, Ecuador</i>
Aug 22-25	<i>TSGB Puerto Vallarta, Mexico</i>
Aug. 27	<i>Fourth Thursdays for CMA Alumni (visit www.csum.edu/alumni for locations) 5:30 p.m.</i>
Aug. 30	<i>TSGB Vallejo—End of Second Cruise</i>
Sept. 8	<i>Instruction Begins Fall Semester 09-10</i>
Sept. 14	<i>CMA Golf Classic—Green Valley Country Club</i>
Sept. 24	<i>Fourth Thursdays for CMA Alumni (visit www.csum.edu/alumni for locations) 5:30 p.m.</i>
Oct. 9-11	<i>Homecoming and Day on the Bay (11th)</i>
Nov. 14	<i>Preview Day for Prospective High School Students</i>