



LLOYD CENTER

coastlines



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Editor: JoAnn Bernier Cornell



happy 30th

On the occasion of the 30th anniversary of the Lloyd Center's founding, Executive Director, D'Arcy MacMahon and Research Director, Mark Mello visit the gracious founder of the Lloyd Center, Karen G. Lloyd.



Walk softly...

take only
pictures...

leave only
footprints.

A quarterly newsletter of the Lloyd Center for the Environment, Dartmouth, Massachusetts

Turn-the-Tide update:

Excerpts from a message to Members of the Select Board, Town of Dartmouth, Massachusetts

RE: REDUCING NITROGEN POLLUTION IN THE TOWN OF DARTMOUTH

From:

Dr. Brian Howes, UMass Dartmouth School of Marine Science and Technology
D'Arcy G. MacMahon, Lloyd Center for the Environment
Michael O'Reilly Town of Dartmouth Environmental Affairs Coordinator
Mark Rasmussen, The Coalition for Buzzards Bay

The Town's participation in the Turn-the-Tide partnership with The Coalition for Buzzards Bay, Lloyd Center for the Environment, and the University of Massachusetts School of Marine Science and Technology is evidence of its clear leadership and substantial commitment in addressing the nitrogen pollution currently degrading the town's estuaries.

The Turn-the-Tide partnership, the first of its kind, was begun in 2002 in order to identify all sources of pollution to the Slocum River, Little River, and Apponagansett Bay watersheds and to understand how each contributes to the degradation of town waters. This year, the data collected (under the guidance of Lloyd Center scientist, Newton P. Millham, Ph.D.) and compiled over the past four years will be delivered to the Town by the School of Marine Science and Technology in three separate technical reports, one each for the Slocum River, Little River, and Apponagansett Bay. With this information, the Town can begin the process of developing a comprehensive wastewater management strategy for removing pollution and restoring water quality, shellfish populations and wildlife in Dartmouth's waters.

Therefore, we recommend that you appoint a Nitrogen Management Committee to serve in an advisory capacity to the Select Board. The duties of this group should include a review and summarization of the SMAST technical reports on the Town's estuaries, review of the pollution reduction options, provision of oversight and input and ultimately recommendation on comprehensive wastewater management planning. Dartmouth is fortunate to employ a dedicated and professional staff whose representation will be essential in moving the town's water quality goals forward. The Board may also consider appointing citizens from the community at-large, in addition to environmental partners, e.g., The Coalition for Buzzards Bay and the Lloyd Center for the Environment.

We are excited to begin to convert the science we have conducted on Dartmouth's waterways into concrete pollution cleanup and restoration action and look forward to continuing our partnership with the Select Board.



Fundraiser Helps Meet Growing Demand for Environmental Services

reprinted from The Dartmouth / Westport Chronicle

A last-minute surge in demand caused ticket sales for the Center's annual clambake fundraiser to soar beyond all expectations, resulting in a sell-out for the fifth-year in a row.

South Coast residents and guests from all over New England joined forces at CLAMBAKE XXIII, "Simply the Best!" to raise funds to meet the growing demand for the Center's education and research programs. Seven hundred and fifty supporters dined on traditional New England boiled lobster dinners and danced the night away to the music of the popular "Men in Black". Bidding-high on an impressive array of unique items and services donated for the event's much ballyhooed Silent Auction, these celebrating supporters made it clear that they care deeply about backing the Center's ongoing efforts to protect the fragile nature of the area's coastal ecosystems.

Early in the day preceding the big event, with the sun just above the horizon, Event Manager Andrew Simpson and his team of loyal volunteers went straight to work transforming the huge paved parking lot of Demarest Lloyd State Park into a spectacular and elegant seaside dinner-dance setting, designed expressly for the Center's now famous "Simply the Best!" Clambake.

Banner graphics illustrating outstanding features of the Lloyd Center's work were hoisted high in the majestic peaks of the huge Century Tent. Hand-painted surfboards and "flip flop" beach shoes set the festive "Catch the Wave" tone. Seventy-five tables were set with candles floating in three-tiered glass centerpieces, palm fronds, sea-shells and hibiscus blossoms. Guests' chairs were adorned with "Reduce, Reuse, Recycle" shopping bags and topped with special Clambake XXIII caps bearing a whimsical "surfing clam", donated by AHEAD USA. Outside the tent, a restored vintage 1967 Mustang convertible, surfboards, a classic "Woody" beach wagon and an environmentally friendly 2009 Toyota Prius from Presenting Sponsor, Toyota of Dartmouth, established the "beach" theme for arriving guests.

years ago, Karen Lloyd had a dream of creating a first-rate environmental education center here on the South Coast of Massachusetts. Over the years, her sister Angelica and members of her family have moved that dream forward, providing incentives for others to join in support of the Center. Today, it is all of you who are making it work. We are honored to have legions of new members who understand what is needed to protect the nature of our coastlines. Without your support," he told the assembled throng, "we could not possibly be reaching the 15,000 children we will reach this year, nor providing the research services for which there is such a growing demand."

Mr. MacMahon also thanked Rusty and Marky Shapleigh, past co-chairs of the clambake committee for their hard work, and Stephanie Erickson, chair of this year's committee. Other members of this year's Steering Committee include: Barbara Ferri, Sandra Hall, Mary Ellen Hawes Lees, Mary Mandeville, Carlin Moroney, Tina Nauman and Event Managers Andrew Simpson and Don Douglas.

The Lloyd Center wishes to sincerely thank its dedicated volunteers, patrons and corporate sponsors! As a result of their hard work and support, Lloyd Center scientists, educators and naturalists will continue to move ahead, in innovative and effective ways, to challenge our children, rescue our rivers, and inspire our citizens to make wise environmental choices.

For many years, the Lloyd Center's Clambake and Silent Auction have marked the official start of the summer season for South Coast revelers. Despite the air of fun and frivolity, everyone at the Center takes the event's continual success very seriously.

Executive Director, D'Arcy MacMahon spoke from the heart when he addressed the Center's supporters noting that, "Thirty



In addition to David and Sandy Hall's classic "Woody" beach wagon (background) setting the Clambake's beach theme, Randall T. Weeks parks his vintage 1967 Mustang convertible at the tent entrance.



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Every effort has been made to compile and present an accurate listing of Clambake sponsors, donators and volunteers. If your name was inadvertently omitted or incorrectly listed, we apologize.



CLAMBAKE XXIII STEERING COMMITTEE

- Stephanie Erickson, Chair
- Barbara Ferri
- Sandra Hall
- Mary Ellen Hawes Lees, ex officio
- Mary Mandeville
- Carlin Moroney
- Tina Nauman
- Rusty & Marky Shapleigh

SPECIAL THANKS TO:

- Carol Veiga
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PINNEY HONORED AT ANNUAL MEETING



When the name of William M. Pinney, Jr. was announced by Board President Mary Ellen Hawes Lees as the winner of this year's George G. Haydock Award at the Lloyd Center's Annual Meeting, the audience erupted with an enthusiastic roar of approval and applause.

In presenting the 2008 award, Executive Director, D'Arcy MacMahon, noted Bill Pinney's outstanding record of commitment to environmental conservation. "In addition to being an inspiring leader in the effort to save this part of the world from development and from a host of other destructive forces," MacMahon said, "Pinney not only lifts our spirits by his very presence, but with that ever present twinkle in his eye, he challenges each of us personally, to do our best!" One of the original incorporators of the Lloyd Center, Mr. Pinney has been a driving force in the local land conservation movement, helping to save of over 4,000 acres of wetlands, wildlife habitat, farmland, forests, and scenic landscapes.

The George G. Haydock Award is presented each year to an individual who, in the spirit and tradition of long-time Lloyd Center supporter and nature enthusiast, Dr. George G. Haydock, is deemed to have personally made a most outstanding contribution to protecting the fragile nature of our coastal environment.

Chief Financial Officer Robert A. MacGregor reported that contributions, in the form of gifts and grants, had continued the steady growth they had shown over the past four years. He stated that, during that same four-year period, \$2.3 million, an impressive 86% of the Center's expenditures, had gone directly to support the growing demand for the Center's highly regarded

research, education and outreach services.

MacGregor also noted that for the third year in a row, the Lloyd Center had received Charity Navigator's highest 4-Star rating. According to Charity Navigator, the nation's largest independent evaluator of non-profit organizations, fewer than one out of every ten organizations it rates receives three consecutive annual 4-Star ratings, signifying that the Lloyd Center is considered to be outperforming the vast majority of our nation's non-profit organizations in terms of organizational efficiency and organizational capacity.

In recalling some of the Lloyd Center's "highs and lows" over the years, MacMahon noted that "While no one may get through life undefeated, the Lloyd Center has shown remarkable resiliency in rebounding from whatever obstacles have been thrown in its path." He reported that the Center, now celebrating the 30th anniversary of its founding, is moving ahead on a well-planned course, with a talented staff, a dedicated board, great crew of volunteers, and demands for its services at an all time high. He reported exciting progress being made in the development of a wide-ranging master plan, on which the staff, the board of directors, and a group of knowledgeable advisors are currently collaborating, matching visionary goals with pragmatic actions. He expects this effort to result in a set of carefully considered and thoughtfully designed plans for the future.

Speaking of the current popularity of "going green", MacMahon cautioned that while the topic may be high on everyone's verbal "must do" list, the challenge is for all of us to not just "talk the talk" but to change our behavior. He reported on

the Center's recent collaboration with a number of other leading environmental organizations, promoting ways in which members of the public can curtail the recklessness with which they have become accustomed to treating our planet and adopt a more responsible way of living. Finally, he thanked Mary Ellen Hawes Lees for her leadership and selfless devotion of time to the Center.

Research Director, Mark Mello, spoke of the increasing demand for the unbiased scientific evaluations and analyses for which the Center has become widely known, noting that 2008 contractual obligations have already surpassed those taken on in the preceding year. He emphasized the importance of the Center developing more sustainable long-term project undertakings, drawing attention to the lack of continuity and financial consequences which short-term contractual assignments present.

Director of Education, Patricia Sheppard, spoke of the growth and success of the Lloyd Center's environmental science teaching program over the years. Reporting on the Center's remarkable achievement of having taught a record 15,048 students in 2007, Ms. Sheppard recalled how recently the goal of 5,000 students seemed like a "reach". "Today, with a bright and wonderfully dedicated staff," she said, "the Lloyd Center is being called upon to teach in every third-grade class in the towns of Dartmouth, Fairhaven and, in collaboration with our partners from the Westport River Watershed Alliance, in Westport, as well as a growing number of third-grade classes in the Fall River public schools. "In addition," she reported, "our naturalists are now teaching in every fifth-grade class in

MEMORIAL PATH-STAIRWAY



A safe, welcoming and beautifully landscaped path-stairway leading from the lower parking lot to the Visitor Center on the hill.

The 116 path-stairway, featuring cedar posts and two-tiered aluminum handrails, will be landscaped with native plants. The path will be lit at night with low-voltage lights.

Over \$10,000 has already been raised from the Massachusetts Cultural Council Facilities Fund.

With your help, we can raise the additional funding!

The first 15 donors of \$500 will get to designate an individual or couple in whose memory (or honor) a Landing will be named.

The first 18 donors of \$200 will get to designate an individual or couple in whose memory (or honor) a Stair will be named.

For more information, please call Sarah Van Vleck at 508-990-0505 x21 or email at sarah@lloydcenter.org.



Dartmouth, Fairhaven and Fall River, for a total of 61 classes."

Ms. Sheppard went on to explain the daunting challenges the Lloyd Center faces in dealing with the effects of "tightened" school budgets, noting that "Because these children constitute our next generation of stewards...bringing these environmental science lessons to them must never be viewed as discretionary....They need our help and with the support of the public, our supportive members and corporate associates, we will bring it to them."

In other business, five new directors, Eric Braitmayer, Tomas M. Cern, Michael J. Eatough, Thomas E. Lynch Jr., and Shari L. McGuire, were elected to membership on the board. Later, the following were elected to positions as officers: Mary Ellen Hawes Lees (President), Robert A. MacGregor (Vice-President), Mary D. Mandeville (Clerk), and Tomas M. Cern (Treasurer).

The Center bid a grateful "farewell" to retiring board members Leslie J. De Groot, M.D., Donald S. Douglas, Ph.D., Raymond L. Loranger, Ph.D., Rush S. Shapleigh, and Linus Travers, Ph.D. Each received a standing ovation and, in appreciation for years of support and dedicated service, was presented with a special hand-crafted "Lloyd Center" Salt Marsh Pottery piece. A specially inscribed antique sculling oar was presented to Dr. De Groot, in recognition of his role in founding the Lloyd Center's annual regatta on the Slocum River.

Throughout the evening, Dedee Shattuck was on hand to sign her wonderful new book, *Farmers, Portraits in a Challenging Landscape*. It was clear that the demand for Ms. Shattuck's work had not subsided, as a line of eager new purchasers immediately

formed to get the popular author to personally inscribe their copies. The profits from the evening's sales were generously donated by Ms. Shattuck to support the Lloyd Center's environmental education programs. Thank you, Dedee!

Highlight of the evening, key-note speaker Andrew Pollock, local farming advocate and owner of Dartmouth's legendary Silverbrook Farm, delivered a dynamic talk, characterized by one rapt listener as "anecdotal humor, brilliantly mixed with serious warning." No one left without coming to understand what it means to be a "locavore" and why the locavore movement is one of the key ways by which we can improve our treatment of the environment.

Locavores, he explained, are those who recognize that food grown locally not only tastes better and is more nutritious than what has to be brought in from thousands of miles away, but that the very transporting of foodstuffs to distant markets means dumping unnecessary masses of carbon dioxide into the atmosphere.

Mr. Pollock urged those in the audience to "Eat your view", that is, foods produced within in a specific range of one's residence. He capped his address with a serious challenge, noting that if every U.S. citizen ate just one meal a week (any meal) composed of locally and organically raised meats and produce, we would reduce our country's oil consumption by 1.1 million barrels of oil every week.





DAN KING, THE CHRONICLE

CALENDAR OF EVENTS

508-558-2918 • www.lloydcenter.org

BIRDING ON MONOMOY ISLAND

Saturday, August 16th, 7:00am-5:00pm

Raindate: Sunday, August 17th

Meeting Place: Shaw's parking lot, Route 6, Dartmouth/New Bedford line

Members: \$36, Non-Members: \$45

Ages 8 and up

Pre-registration required. Space is limited

Leader: Jamie Bogart, Research Associate

Enjoy a day of birding on Cape Cod's Monomoy Island, Massachusetts' National Wildlife Refuge! Most migrating shorebirds which travel the Atlantic "flyway" take a stopover on Monomoy, making it one of our area's greatest birding sites. You may see Godwits, Whimbrels, Dowitchers, Glossy Ibises, Oyster-catchers, Black Skimmers, Roseate Terns and many more. Transportation provided. Bring a lunch, sun protection, your binoculars (if possible) and footwear that won't mind getting wet. Great trip for experienced and novice birders alike.

SUNSET KAYAK TOUR

Wednesday, August 20th, 6pm-8pm

Meeting place: Lloyd Center Headquarters, 430 Potomska Road, Dartmouth

Members: \$36, Non-Members: \$45

Ages 14 and up

Pre-registration required by Tuesday,

August 19th. Space is limited.

What better way to end the day than a peaceful paddle along the Slocum River. You'll feel your stress dissolve as we glide through the salt marsh enjoying the setting sun. Watch wading and shore birds flock to feed, see fish jump, and await the multitude of color changes in the sky. This is a wonderful and relaxing trip for exploring

the delicate salt marsh ecosystem. Paddlers of all abilities are welcome.

These Lloyd Center trips are led by certified instructors from our partners at Osprey Sea Kayak Adventures. Osprey Sea Kayak is an American Canoe Association Professional School that provides comprehensive sea kayak instruction, guided tours, environmental education, team-building programs, kayak rentals, and unique adventure trips along coastal sections of southern New England as well as in the Bahamas and in Greece.

SUNSET KAYAK TOUR

Wednesday, September 10th, 6pm-8pm

Pre-registration required by Tuesday, September 9th. Space is limited.

See details from August 20th Sunset Kayak Tour.

WOMEN'S CANOE TRIP

(Sorry, Gents, this one's for the ladies!)

Thursday, September 11th, 6:30pm-8:30pm

Meeting place: Lloyd Center Headquarters, 430 Potomska Road, Dartmouth

Members: \$20, Non-Members: \$25

Pre-registration required. Space is limited.

Leader: Liz Moniz, Lloyd Center Senior Educator/Naturalist

Enjoy canoeing on the spectacular Slocum River estuary. Transportation and all equipment provided. Bring footwear that won't mind getting wet, as well as a snack and libation (non-alcoholic). If you have specific questions regarding the program, call Liz at 508-990-0505 x15.

SLOCUM RIVER REGATTA

Saturday, September 20th

For entry application forms and more information, visit www.lloydcenter.org. This event is open to single and double racing shells, recreational shells, single and tandem kayaks, single and double fixed-seat rowboats and five-oared whaleboats with coxswains, all in men's, women's and co-ed categories. Races will start and finish near the mouth of the Slocum River (Lloyd Center's pier and dock) and traverse a two-mile closed-loop buoyed course on the tidal waters of one of New England's most beautiful estuaries. The emphasis of the regatta is on good fun and enjoyment of the scenic Slocum River. A light lunch and award ceremony will follow the racing.

FALL FAMILY FUN-FEST

Sunday, September 21st, noon-3pm

Location: Lloyd Center Headquarters, 430 Potomska Road, Dartmouth

Registration not required.



Calling all Lloyd Center Members (and prospective members)! A fun-filled family event complete with crafts, games, nature activities and walks, dip-netting, kayaking, informational walks, scavenger hunt, music and, of course, our legendary "make your own sundae" extravaganza!



508-558-2918 • www.lloydcenter.org

WHALE-WATCH AND BIRD-WATCH EXPEDITION - CAPE COD

Saturday, October 4th, 7am-7pm

Raindate: Sunday, October 5th

Meeting Place: Shaw's parking lot, Route 6, Dartmouth/New Bedford line

Members: \$55, Non-Members: \$60 (Children 12 and under: \$8 less than adults)

Ages 8 and up

Pre-registration required. Space is limited.

Leader: Jamie Bogart, Lloyd Center Research Associate

Pack a lunch and prepare for a daylong adventure with the Lloyd Center! This is a great trip for birders and whale lovers alike. Spend the morning birding along the outer Cape Cod shore. In the afternoon, hop onboard the Dolphin Fleet in Provincetown to search for more birds and the gentle giants of the seas. October is a great time of the year to see the endangered Right Whales migrating to their winter grounds. Don't miss out on this wonderful opportunity to see both migrating birds and whales along the coast of Cape Cod and Stellwagon Bank. Participants should bring binoculars (if possible) and a camera. Warm clothing and footwear are highly recommended.

CANOEING THE NEMASKET & TAUNTON RIVERS

Sunday, October 19th, 9am-4pm

Meeting place: "Park & Ride", Exit 4 from Rt 140

Members: \$36, Non-Members: \$45

Registration required, space is limited.

Leader: Mark Mello, Lloyd Center Research Director

Join Mark for this annual fall foliage tour on two of the most beautiful rivers in eastern Massachusetts. Transportation and all equipment will be provided. Bring footwear that won't mind getting wet, as well as a lunch and libation (nonalcoholic). The panoply of fall foliage should be very near its peak!

To learn more about an event or to register for one—call our Event Registration Line at **508-558-2918** or simply visit our website at www.lloydcenter.org. Unless otherwise noted, pre-registration for each event is required.

Due to unforeseen circumstances, programs may need to be changed, rescheduled or cancelled at the Lloyd Center's discretion. Check our website at www.lloydcenter.org for the most up-to-date information on all of our events.

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August 16th and 17th



Twenty-four Dartmouth & Westport Artists Team Up for New Tour
One artist, at one studio, at one time.

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24 Dartmouth and Westport artists team up for a new tour

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OSPREY MONITORING ADVANCES

Taking advantage of a fine July morning, the Lloyd Center shorebird team opened new doors for avian research on the Slocum River estuary. Collaborating with Becky Cushing of the Audubon Society, Lloyd Center Research Associate, Jamie Bogart, and Lloyd Center interns Laura Castanon and Kim Osienski, assisted with banding the nesting adult osprey pair and their two chicks, all residents of the nesting platform erected by members of the Lloyd Center staff. Bands were applied and measurements taken of the wing, tarsus (leg shank) and culmen (bill). In addition to continued monitoring of this nesting pair and the whereabouts of their two chicks, the Lloyd Center will be erecting additional platforms near the mouth of the Slocum and monitoring the population for years to come.

There is much evidence to show that Lloyd Center science programs can make a very real difference to the children in our area. Given the comprehensive demands of current curriculum planning, these programs fill significant gaps in science education at the elementary and middle school level in the municipalities they serve, particularly in children learning to apply critical thinking and the scientific method to local environmental issues. Several units also highlight math, general life-skills, and language or visual arts. All of the programs are taught in an interactive and hands-on manner, intended to capture the students' attention and stimulate their higher order thinking.

The following organizations have helped to make the offering of these programs possible:

Alces Foundation, Grimshaw-Gudewicz Charitable Foundation, The Harold Whitworth Pierce Charitable Trust, Rodgers Family Foundation and Greater Fall River Rotary Club— with grants totaling \$28,000 to support the Center's *Science Curriculum Reform and Development Initiative* in the Fall River public schools. With school budgets as tightly restricted as they are today, our ability to provide interactive and effective science teaching has proven to be particularly important. The Center's *Coastal Exploration Program* is now taught in all 39

fifth-grade classes in the Fall River public schools. *The Feathery Focus Program* is being taught in nine third-grade classes in Fall River. Owing to funding limitations, *Feathery Focus* has not yet expanded to all the third-grade classes there.

WAL-MART Foundation, WAL-MART Dartmouth— with a recent grant to support the *Turn-the-Tide* and the *Feathery Focus Education Programs* in Dartmouth public elementary schools. These very effective, interactive science curricula directly benefit all the third- and fifth-graders in the Dartmouth Public Schools. This grant will also enable the Center to continue offering our trails and live nature exhibits to the general public free of charge, as well as to continue our important environmental research and threatened-species protection work.

The Lloyd Center also received funding from *WAL-MART* in Fairhaven and the *Rotary Club of Fairhaven* to support the two environmental programs in Fairhaven.

Helen E. Ellis Charitable Trust— with a generous grant that will allow all seventh and eighth grade students in the Westport Middle School to take part in a *Diamond-back Terrapin Science Program*, in the upcoming year. This grant, with the help of the Westport Cultural Council, strengthens this important program which makes science exciting to these young students.





our interns



Back Row: Holden Appler, Doug Johnston, Tom Graham, Laura Castanon
Front Row: Sam Schneider, Kate Howland, Kim Osienski.

As early as May, Lloyd Center interns began arriving at the Center to begin their training and to experience the challenging aspects of Lepidoptera research, endangered species protection and environmental education. Right through to Labor Day, these talented and carefully selected students are here working under the tutelage of our talented research and education staff.

Research Interns are currently conducting Lepidoptera (butterflies and moths) and Odonata (dragonflies and damselflies) surveys across Massachusetts with Lloyd Center Research Director Mark Mello, as part of the *MA Natural Heritage & Endangered Species Program* and as part of inventories required by the *MA Endangered Species Act*. In addition to taking on primary field responsibility for the Elizabeth Islands Odonata Project, they are busy sorting, pinning and doing data entry, as part of these challenging assignments.

This summer's Lepidoptera/Odonata research interns are Holden Appler and Tom Graham. Holden is a graduate of Wake Forest University, Winston-Salem NC with a BS in biological sciences, and minor in chemistry. Tom is a graduate of Florida State University, Tallahassee with a BS in biological sciences and a minor in chemistry.

Endangered-Species Interns are carrying out fieldwork and data entry for the Piping Plover protection program on state beaches under the care of the Department of Conservation and Recreation (DCR) in Bristol County. They are monitoring the status of breeding pairs of Plovers, creating and maintaining fenced refuges in breeding territories (and installing predator-excluding fences around nests), educating the public, helping enforce boundaries (especially on weekends) and assisting with the preparation of a summary report documenting reproductive success. They are also conducting inventories of other threatened beach wildlife species, including American Oystercatchers, Least Terns, Tiger Beetles and Diamondback Terrapins.

Their important work also calls for the marking of female terrapins and protection of their nests. They are also collaborating with our partners from The Coalition for Buzzards Bay, as part of the Baywatchers program at local estuary sites, and assisting with the collection of various data for a salt marsh restoration monitoring project funded by the Department of Coastal Zone Management.

Our **Endangered-Species Interns** are Laura Castanon and Kim Osienski. Laura is entering her senior year this fall at Washington

University, St. Louis MO, majoring in environmental studies. Kim is majoring in biology at UMASS Amherst.

Education Interns are responsible for assisting the education staff in teaching hands-on science to children at kindergarten through middle-school levels. These include field-based coastal ecology classes and in-class programs on estuarine animals, whales, birds and coastal studies. They also assist with curriculum development and assisting with summer teaching programs.

Working with our education staff are Kate Howland, Doug Johnston and Sam Schneider. Kate is entering her senior year at Stonehill College, studying Environmental Studies and Psychology. In September, Doug will be starting his freshman year at Bowdoin College, where he anticipates majoring in neuroscience or environmental studies. Sam is a senior at Swarthmore College, majoring in philosophy, and will be spending his fall semester in Williams College maritime studies program at Mystic Seaport (CT).



green

GREEN IS GOING MAINSTREAM

(From our friends at Consumers Union)

In yet another example that green is going mainstream, the nation's largest association of home builders recently launched its National Green Building Program. The program, developed and run by the National Association of Home Builders, offers builders the educational tools and resources needed to build NAHB-certified green homes under its new standard expected to be finalized in May.

The new standard will require builders to include features in seven categories

- ✿ Lot and site development;
- ✿ Resource efficiency;
- ✿ Energy efficiency;
- ✿ Water efficiency;
- ✿ Indoor environmental quality;
- ✿ Global impact; and
- ✿ Homeowner education.

Points can be awarded in each of the above categories, and depending on how many are accrued, homes can meet one of four different certification levels: Bronze, Silver, Gold, or Emerald. While there are minimum point requirements in each category, the program is designed to accommodate regional variations. The new standard will also cover remodeling projects.

The folks at Consumers Union point out that it remains to be seen how NAHB's program will stack up against other green home certification programs, such as the U.S. Green Building Council's LEED for Homes rating system, launched last November.



monitoring our salt marshes

by Jamie Bogart

Every spring and summer, we gaze across the Slocum River estuary at our osprey pair, which annually raise their young on the platform we re-built on the salt marsh a few years ago. While these magnificent raptors effortlessly attract our attention, it is easy to take for granted the importance of their surrounding habitat, the salt marsh itself. In addition to being a natural byproduct of tidal influence where land meets sea, the salt marsh is a fascinating place where unique plant and animal communities may serve as a great outdoor laboratory.

Over the years, coastal development has had serious consequences for salt marshes. Roads and culverts of various sizes have been built through marshes. Time has shown that such culverts are poor mimics of nature. On the contrary, they reduce tidal flows and cause salt marsh vegetation to die off, enabling invasive plants such as phragmites (common reeds) to take over. While many marshes cannot match the pristine state of those near Demarest Lloyd State Park beaches, some area marshes, fortunately, are now slated for restoration and promised funding should be forthcoming.

To this end, the Lloyd Center recently embarked on a monitoring assignment in cooperation with the Department of Coastal Zone Management's (CZM) Wetland

Restoration Program. The goal is to help assess the current conditions of degraded marshes, and, using healthy "reference" marshes for comparison, compare this to the post-restoration. Vegetation, fish, invertebrates, birds, and salinity will be studied.

Sites new to the Lloyd Center research team include the seriously degraded Somerset (MA) Marsh, once used as a sports field, now experiencing heavy encroachment by phragmites and other freshwater wetland vegetation. At the other end of the spectrum are the Mattapoisett (MA) marshes, including an impacted marsh (155 acres) located off Mattapoisett Neck Road, and the "reference" marsh (85 acres) connected to Brant Island Cove. While this site has undergone some restoration work, it has suffered the least impact of all the sites we are studying.

Additional sites to be monitored will include both Nonquitt Marsh and Round Hill Marsh (the "reference" marsh), for which extensive work has been completed through the years, and a small marsh on West Island in Fairhaven (MA). These sites have restrictive culverts and are experiencing encroachment by phragmites. West Island is also under the jurisdiction of the National Oceanic Atmospheric Administration (NOAA), another partner in the project.



SPECIAL THANKS TO OUR
AND **Volunteers**
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A huge note of thanks to the volunteers who have helped the Lloyd Center and a hearty invitation to any of you who will offer a bit of your time to “give us a hand” in low maintenance projects to improve our Hardscrabble Nature Preserve and Visitor Center here at 430 Potomska Road. Much of our success can be attributed to our volunteers who so cheerfully and generously give of their time and energy.

Volunteering can be engaging and rewarding and we offer a number of volunteer opportunities, ranging from greeting visitors to event planning to trail work. It can be a one-time occasion or a periodic commitment.

For more information on how you can help, please contact Board Member and Volunteer Coordinator Mary Mandeville, at 508-996-0284. You may also sign-up to volunteer online by emailing us at volunteers@lloydcenter.org or by mailing a hard copy of our Volunteer Form (below) to: Volunteer Coordinator, Lloyd Center for the Environment, 430 Potomska Road, Dartmouth, MA 02748.

Thank you—to all of our loyal Lloyd Center members and supporters for your generosity. Your gifts of time, talent and treasure, are the very basis on which the achievements of the past three decades have been built.

LOYD CENTER FOR THE ENVIRONMENT VOLUNTEER FORM



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Please indicate areas of interest to you:

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Outreach Services: Public-Relations, Weekend Coverage, Correspondence, General Support

Education Services: Weekly Walk Leader, Canoe Trip Assistant, Docent, Summer Program Assistance, Teacher Packet Preparation, Monarch Tagging, Animal Feeding, Aquaria Maintenance, Exhibit Design & Construction



Research Services: Butterfly Garden, Collections Work, Specimen Cataloging/Curating/Sorting/Data Entry, (summer: Piping Plover Program Assistant, Dragonfly/Butterfly Teams)

Grounds and Maintenance: Gardening, Trailwork, Design and Clear New Trails, Carpentry Projects, General Maintenance, Butterfly Net Repair

Lloyd Center for the Environment, 430 Potomska Rd., Dartmouth, MA 02748



thanks

DONATIONS RECEIVED IN REMEMBRANCE OF:

Deborah Clinch
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Patton and Richard Tabors, and Laurel Furumoto have generously donated brand new ArcView software and the hardware needed to run it to the Center, thereby enabling us to readily and efficiently access the MassGIS mapping services. Their thoughtfulness has made it possible for Lloyd Center research teams to provide contract services to agencies of the Commonwealth of Massachusetts, which now require contractors to submit mapping data and information in this format.

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