

Long Island Marine Science Association

April 4, 2008 ("March") Walk 7 P.M., Meeting, 8-10 P.M.

Summer Cottage - BOCES @ Caumsett State Park

Come early for a short walk in early spring at Caumsett State Park,

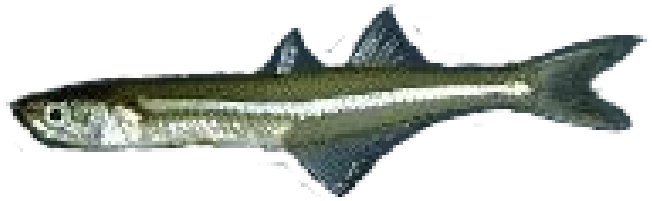
Bring Binoculars.

Then A Marine Science Double Header:

Two short presentations.

Featured Speaker 1: Mixed signals and endocrine disruption around Long Island; a case study from the Atlantic silverside.

Tara A. Duffy, SoMAS, Stony Brook University.



The impact of wastewater effluent on marine organisms is a major concern for ecosystem health. Personal care products, detergents and other chemicals that are not removed through standard water treatment have been shown to disrupt normal endocrine function in fish, altering reproduction. Sex ratios of the Atlantic silverside collected from multiple Long Island bays and estuaries over a three year study display evidence of endocrine disruption resulting from exposure to high levels of wastewater discharge into the marine environment.

Featured Speaker 2: Shifting Ctenophore Abundance and the Implications for Hard Clam Mortality in Long Island Estuaries.

Marianne McNamara, SoMAS, Stony Brook University.



The ctenophore, *Mnemiopsis leidyi*, is an ecologically important gelatinous predator and populations of these have increased dramatically in Long Island estuaries in recent years. Peak abundances of this ctenophore overlap with the spawning and free-floating larval stage of the hard clam, *Mercenaria mercenaria*. Strong predation pressure on hard clam larvae by ctenophores may hinder current attempts to increase recruitment through stock enhancement programs.

Travel directions:The BOCES Center is a small white building just inside and south park entrance. Take your favorite parkway or expressway to Rout 110 north. Go north on 110 until Rt. 25A then left 3 blocks and make a right onto West Neck Road going north. Continue north on West Neck Road until you cross a narrow causeway and it becomes Lloyd Harbor Rd. The park entrance is a short distance further on the left. Once inside the park, proceed past and the first parking lot, make a **right** at the intersection, toward the **Summer Cottage**, then stay to the **left** at post 19 where there is a large "Park Exit" sign. Parking is just past the cottage to the left.

Refreshments and snacks will be served.

If have any questions, call Jim Browne at 516-784-9429 Or email ecojimb@gmail.com