

Amanda M. McGuirk

Institute of Marine and Coastal Sciences
Rutgers University – Cook Campus
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EDUCATION:

Rutgers University - Graduate School of New Brunswick, New Brunswick, NJ
M.S. – Chemical Oceanography, May 2004 (estimated graduation)
Central Michigan University, Mt. Pleasant, MI
B.S. – Major: Biology, Minor: Chemistry, May 2001

HONORS:

- ~~EE~~ President's List Central Michigan University, four semesters
- ~~EE~~ Dean's List Central Michigan University, three semesters
- ~~EE~~ Graduated Magna Cum Laude, Central Michigan University
- ~~EE~~ Central Michigan University Undergraduate Summer Research Scholar, Spring 2000
- ~~EE~~ Inducted into National Golden Key Honor Society, Fall 2000
- ~~EE~~ Nominated for Freshman of the Year, Central Michigan University, Fall 1998

RESEARCH EXPERIENCE:

Jacques Cousteau NERR – Institute of Marine and Coastal Sciences – Rutgers University
New Brunswick/Tuckerton, NJ – *September 2001 to present*

- ~~EE~~ Graduate Assistant – responsible for maintaining NERRS SWMP nutrient sampling in the Mullica River-Great Bay estuary.
- ~~EE~~ Schedule monthly sampling dates.
- ~~EE~~ Collect and process water samples.
- ~~EE~~ Manage and maintain nutrient data.

Freshwater Studies - Biology Department – Central Michigan University

Mt. Pleasant/Beaver Island, MI – *May 2000 - May 2001*

- ~~EE~~ Assisted Dr. Donna King, principle investigator, on a study that examined the affect of Cormorant colonies on water quality in the Beaver Island Archipelago, Michigan.
- ~~EE~~ Completed undergraduate research under Dr. Donna King in a study that investigated the surface water quality of inland lakes on Beaver Island, Michigan.
- ~~EE~~ Performed chemical analyses on water samples for dissolved oxygen, alkalinity, nitrogen, phosphorus and chlorophyll a.
- ~~EE~~ Collected physical data for all sites.
- ~~EE~~ Managed and maintained all physical and chemical data.

Biology Department – Central Michigan University

Mt. Pleasant, MI – *September 1998 – May 2001*

- ~~EE~~ Assisted taxonomist/phytologist, Dr. Daniel Wujek, with studies involving the taxonomy and morphology of algae and aquatic vascular plants.
- ~~EE~~ Prepared specimens for scanning electron microscopy (SEM).
- ~~EE~~ Developed SEM photos of specimens.
- ~~EE~~ Cataloged and maintained reference database.
- ~~EE~~ Assisted in editing manuscripts.

Unpublished Papers:

- ~~EE~~ A brief review on the atmospheric deposition of nitrogen in aquatic ecosystems – graduate research paper
- ~~EE~~ A review of nitrogen transformation and transport in groundwater and its implications for the Barnegat Bay-Little Egg Harbor estuarine system - graduate research paper
- ~~EE~~ Facilitation of iron uptake in phytoplankton cells by iron-binding ligands in seawater – graduate research paper
- ~~EE~~ The surface water quality and trophic status of Lake Geneserath, Fox Lake, Font Lake and St. James Harbor on Beaver Island, Charlevoix County, Michigan – undergraduate research paper

Professional Affiliations:

- ~~EE~~ American Society of Limnology and Oceanography, June 2001 to present
- ~~EE~~ Beta Beta Beta, Biological Honor Society, vice president, September 2000 - 2001