INTRODUCTION

The Duke University Marine Laboratory, with funding from the Office of Naval Research, conducts a ten-week summer internship program for rising seniors from three high schools: East Carteret High School, West Carteret High School and the North Carolina School of Science and Mathematics. The purpose of the program is to expose students to active, on-going research programs so that they may be able to understand what is involved in a career in marine science research.

Groups of interns are preselected by a committee of science teachers at each school and the applications are sent to the Duke University Marine Laboratory (DUML). At DUML, applications are reviewed and rated by a panel of three scientists: one from NOAA-NMFS, one from the University of North Carolina Institute of Marine Sciences, and one from DUML. Two interns are selected from each of the three schools. Interns are matched with research faculty at DUML who then contact the interns in the spring to begin the process of developing a research topic.

Interns arrive at DUML in mid-June to begin an intensive 10-week exposure to research under the supervision of a faculty member. The interns develop a project topic and a research plan, carry out the research, including data analysis, write a technical report and give an oral presentation of their research. If appropriate, the interns are encouraged to present their work with their mentor at a scientific meeting and/or develop a journal article.

The exposure to such an active research environment is hoped to encourage students at an early age to consider careers in science, particularly marine science.
THE 1988 PROGRAM

Advertising for the internship program for the summer of 1988 began in early December 1987. In February 1988, the three high schools provided a pool of 15 applicants (7 from West Carteret, 3 from East Carteret, 5 from NC School of Science and Mathematics). A selection committee consisting of Drs. Gene Huntsman (NOAA-NNFS), Rick Luetich (UNC Institute of Marine Sciences), and Thomas Johnson (DUML) reviewed the applications. There were two interns selected from East Carteret High School, two from West Carteret High School and two from the North Carolina School of Science and Mathematics.

The program began on June 13 and concluded on August 19, with oral presentations by each intern being given on August 16. Information sheets for each intern are attached which provide biographical information as well as the name of the mentor, and project title/major tasks performed.

Prepared by: William W. Kirby-Smith, Coordinator
Office of Naval Research High School Internship Program
Duke University Marine Laboratory
Beaufort, NC 28516
(919) 728-2111
Duke University Marine Laboratory
Beaufort, North Carolina

Office of Naval Research - High School Internship Program

INFORMATION FOR EACH APPRENTICE

Year: 1988
Dates: 06/13-08/19

Name: Jennifer Millicent Bennett

Address: P.O. Box 1659
Atlantic Beach, NC 28512
919-247-7527

Address (School, '88-'89): West Carteret High School
Morehead City, NC 28557
919-726-1176

Phone: 919-247-7527

Last Grade Completed: Junior

Type of School: Public

Sex: Female

Race/Ethnicity: White

Installation: Duke University Marine Laboratory
Beaufort, NC 28516
(919) 726-2111

Phone: 919-726-2111

Mentor: Dr. John P. Sutherland

Title: Associate Professor of Zoology

Principal Discipline of Research: Marine Ecology

Major Tasks Performed: Investigation of the effects of flow and feeding by Styela plicata on larval settlement in a subtidal community.

College of Choice: UNC Chapel Hill

Field of Interest (Major): Medicine
### Year: 1988  
### Dates: 06/13-08/19

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<thead>
<tr>
<th><strong>Name:</strong></th>
<th>Marieke Joanne Brouver</th>
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</table>
| **Address:** | 124 Charles Street  
                 Beaufort, NC 28516  
                 919-728-7807 |
| **Address (School, ’88-’89):** | East Carteret High School  
                                    Beaufort, NC 28516  
                                    919-728-3514 |
| **Last Grade Completed:** | Junior |
| **Type of School:** | Public |
| **Sex:** | Female |
| **Race/Ethnicity:** | White |
| **Installation:** | Duke University Marine Laboratory  
                               Beaufort, NC 28516  
                               (919) 728-2111 |
| **Mentor:** | Dr. William W. Kirby-Smith* 
                                & Ms. Julia K. Parrish  
                                *Research Associate Professor |
| **Title:** | Marine Ecology |
| **Principal Discipline of Research:** | Marine Ecology |
| **Major Tasks Performed:** | Investigation of the effect of fish school size on the efficiency of predation. |
| **College of Choice:** | UNC Chapel Hill |
| **Field of Interest (Major):** | undecided |
INFORMATION FOR EACH APPRENTICE

Year: 1988
Dates: 06/13-08/19

Name: Regan A. Huff
Address: 100 Kirkwood Drive
        Chapel Hill, NC 27514
        919-929-3466
Address (School, '88-'89):
NC School of Science & Mathematics
P.O. Box 2418
1219 Broad Street
Durham, NC 27705
        919-286-3366
Phone:

Last Grade Completed: Junior
Type of School: Public
Sex: Female
Race/Ethnicity: White
Installation: Duke University Marine Laboratory
Beaufort, NC 28516
        (919) 728-2111
Phone:
Mentor: Dr. Daniel Rittschof
        Research Assistant Professor
Title:

Principal Discipline of Research: Chemical Ecology

Major Tasks Performed: Investigation of the attraction of the hermit crab Clibanarius vittatus to a chemical in wounded gastropod flesh.

College of Choice: Dartmouth, Pomona, Princeton
Field of Interest (Major): undecided
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<tr>
<th><strong>Name:</strong></th>
<th>Sharon Celeste Posey</th>
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<tr>
<td><strong>Address:</strong></td>
<td>920 Carnoustie Circle</td>
</tr>
<tr>
<td></td>
<td>Cary, NC 27511</td>
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<td></td>
<td>919-467-7079</td>
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<th><strong>Address (School, '88-'89):</strong></th>
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<td><strong>Installation:</strong></td>
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<td>(919) 728-2111</td>
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<tr>
<th><strong>Mentor:</strong></th>
<th>Dr. Richard B. Forward</th>
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<td><strong>Title:</strong></td>
<td>Professor of Zoology</td>
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<th><strong>Principal Discipline of Research:</strong></th>
<th>Physiology of Marine Animals</th>
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| **Major Tasks Performed:** | Investigation of who controls larval release in fiddler crabs through shifted light-dark cycles and effects of ablating ovigerous females on larval release. |

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<th><strong>College of Choice:</strong></th>
<th>Duke, UNC-CH, Wake Forest, Cal Tech</th>
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<td><strong>Field of Interest (Major):</strong></td>
<td>Molecular biology, physics</td>
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Duke University Marine Laboratory  
Beaufort, North Carolina

Office of Naval Research - High School Internship Program

INFORMATION FOR EACH APPRENTICE

Year: 1988  
Dates: 06/13-08/19

Name: Devey Michael Sasser

Address: Rt. 2, Box 604  
Beaufort, NC 28516  
919-728-4946

Phone:  

Address (School, '88-'89): East Carteret High School  
Beaufort, NC 28516  
919-728-3514

Phone:  

Last Grade Completed: Junior

Type of School: Public

Sex: Male

Race/Ethnicity: White

Installation: Duke University Marine Laboratory  
Beaufort, NC 28516  
(919) 728-2111

Phone:  

Mentor: Dr. William W. Kirby-Smith

Title: Research Associate Professor

Principal Discipline of Research: Marine Ecology

Major Tasks Performed: A comparative investigation of the effects of forest runoff and farm runoff on the South River estuary.

College of Choice: NC State Sch. Engineering or Rose-Hulman Inst. Technology

Field of Interest (Major): Engineering
Duke University Marine Laboratory
Beaufort, North Carolina

Office of Naval Research - High School Internship Program

INFORMATION FOR EACH APPRENTICE

Year: 1988
Dates: 06/13-08/19

Name: Joseph Coleman Taylor
Address: 112 Midyette Avenue
Morehead City, NC 28557
919-247-4926

Phone:

Address (School, '88-'89): West Carteret High School
Morehead City, NC 28557
919-726-1176

Phone:

Last Grade Completed: Junior
Type of School: Public
Sex: Male
Race/Ethnicity: White

Installation: Duke University Marine Laboratory
Beaufort, NC 28516
(919) 728-2111

Phone:

Mentor: Dr. Thomas C. Johnson
Title: Associate Professor of Geology

Principal Discipline of Research: Geological Oceanography

Major Tasks Performed: Sedimentological investigation of Lake Turkana (Kenya); percent carbonate per depth down core.

College of Choice: University of Virginia
Field of Interest (Major): Marine archaeology
Duke University Marine Laboratory
Beaufort, North Carolina

Office of Naval Research - High School Internship Program

INFORMATION FOR EACH MENTOR

Year: 1988
Dates: 06/13-08/19

Name: Richard B. Forward, Jr.
Installation: Duke University Marine Laboratory
Beaufort, NC 28516
Phone: (919) 728-2111

Sex: Male
Race/Ethnicity: White

Highest Degree Held: Ph.D.
Principal Field of Research: Zoology

Number of Years of Mentorship: 3

Number of Apprentices this Year (1988): 1
INFORMATION FOR EACH MENTOR

Year: 1988
Dates: 06/13-08/19

Name: William W. Kirby-Smith
Installation: Duke University Marine Laboratory
             Beaufort, NC 28516
             (919) 728-2111

Sex: Male
Race/Ethnicity: White
Highest Degree Held: Ph.D.
Principal Field of Research: Marine Ecology
Number of Years of Mentorship: 5
Number of Apprentices this Year (1988): 2
Year: 1988
Dates: 06/13-08/19

Name: Thomas C. Johnson
Installation: Duke University Marine Laboratory
Beaufort, NC 28516
Phone: (919) 728-2111
Sex: Male
Race/Ethnicity: White
Highest Degree Held: Ph.D.
Principal Field of Research: Geology
Number of Years of Mentorship: 3
Number of Apprentices this Year (1988): 1
| **Year:** | 1988 |
| **Dates:** | 06/13-08/19 |
| **Name:** | Daniel Rittschof |
| **Installation:** | Duke University Marine Laboratory Beaufort, NC 28516 |
| **Phone:** | (919) 728-2111 |
| **Sex:** | Male |
| **Race/Ethnicity:** | White |
| **Highest Degree Held:** | Ph.D. |
| **Principal Field of Research:** | Zoology |
| **Number of Years of Mentorship:** | 6 |
| **Number of Apprentices this Year (1988):** | 1 |
Name: John P. Sutherland
Installation: Duke University Marine Laboratory
Phone: (919) 728-2111
Sex: Male
Race/Ethnicity: White
Highest Degree Held: Ph.D.
Principal Field of Research: Zoology
Number of Years of Mentorship: 1
Number of Apprentices this Year (1988): 1