SANTA BARBARA CITY COLLEGE

PROJECT PROPOSAL TO THE OFFICE OF SEA GRANT

FOR THE

MARINE TECHNICIAN TRAINING PROGRAM
ASSURANCE OF COMPLIANCE WITH THE NONDISCRIMINATION CLAUSE applicable to:

2/25/74  
Marine Technician Training Program 1974-75  
(insert in the space above the title, date, and/or other identification of the application/proposal to which this assurance is applicable)

Santa Barbara City College, 721 Cliff Drive, Santa Barbara, CA 93109

(1) hereby warrants, covenants, agrees, and assures that it will conduct the program/project described by the above identified application/proposal, or as it may be revised or modified prior to any grant award or subsequent to any grant award, in compliance with all requirements of the "recipient" imposed by or pursuant to the Nondiscrimination clause appended thereto, which clause shall also be incorporated into any grant awarded on the basis of such proposal, and

(2) agrees and acknowledges that this assurance of compliance is a prerequisite condition to approval of the proposal or any grant or grant modification or amendment extending any Federal financial assistance pursuant thereto, that any such Federal financial assistance which may be extended to it by the U.S. Department of Commerce will be in reliance on the representation made by this assurance and that the United States shall have the right to seek Judicial enforcement thereof, and that this assurance of compliance shall be binding upon it, its successors, assignees, and transferees.

February 25, 1974

Date

Signature of official authorized to sign this assurance on behalf of the above identified organization

Glenn G. Gooder
Typed Name

Superintendent-President
Title
A Project Proposal to:

Submitted by:

Date of This Proposal:
March 1, 1974

The Office of Sea Grant
NOAA, U. S. Department of Commerce
Santa Barbara City College
Santa Barbara Junior College District
721 Cliff Drive
Santa Barbara, California 93109

Title:
Marine Technician Training Program

Amount requested from Sea Grant:
$10,570

Matching funds proposed:
$176,510

Duration of proposed activity:
1 year

Proposed starting date:
July 1, 1974

Year of Activity:
New Proposal

Previous grants' amount
1968-69 through 1972-73 school years: $337,981

We, the undersigned, certify that, in the event this proposal is accepted, in whole or in part, our signatures on this proposal constitute acceptance of and compliance with statutes and regulations of the U. S. government and the U. S. Department of Commerce as detailed in Part Three, "The National Sea Grant Program, Program Description and Suggestions for Preparing Proposals," dated June 1, 1972, and that pages 29 to 44 of that publication are incorporated by reference as part of this proposal.

H. Ramsey Parks
Principal Investigator
Coordinator-Assistant Professor
Trade and Technical Division
Social Security Number - 547-44-7158

Melvin O. Elkins
Associate Investigator
Assistant Dean, Vocational Education
Social Security Number - 567-38-5822

Donald K. Sorsabal
Administrative Dean, Business Services
Social Security Number - 566-32-0443

Glenn G. Gooder
Superintendent-President
Social Security Number - 546-12-2386

For administrative details contact Mr. H. Ramsey Parks, Santa Barbara City College, 721 Cliff Drive, Santa Barbara, California 93109, Phone (805) 965-0581, Ext. 201 or 962-7519.
Marine Technician Training Program

To prepare qualified Marine Diving Technicians to meet the growing needs and demands of the offshore industry.

To constantly evaluate feedback from the Marine Technology Advisory Committee, resulting in a broad spectrum curriculum that is continually updated and revised to ensure that the graduates of the program meet current industrial needs and standards.

The curriculum is designed to give the student a basic understanding and knowledge of the marine environment and to develop the skills currently required of a diving technician. Included in the curriculum are general education courses designed to increase the student's knowledge and communicative ability.

The program essentially trains environmental technicians. This training enables the graduate to help fill the expanding manpower needs in the offshore industry, making offshore work safer and more efficient, and as a result more compatible with the environment. Criteria established by this program will serve as useful guidelines for others.

1. Continuing high rate of placement of the graduates of the program.
2. Success of graduates once employed by the offshore industry.
3. Ability of program to keep pace with the industry as it extends its capabilities and technology.
4. Continual growth of industrial recognition and support of the program.
### SUGGESTED SEA GRANT BUDGET FORM

<table>
<thead>
<tr>
<th>Grantee Institution</th>
<th>Name of Project Leader(s)</th>
<th>1974-75</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>H. Ramsey Parks</td>
<td>SANTA BARBARA CITY COLLEGE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### A. SALARIES AND WAGES

1. Senior Personnel
   - a. 1 (Co) Project Leader(s)
     - Cal Acad Summ Cal Acad Summ
     - .5 1.3
   - b. 9 Associates (Faculty or Staff)
     - 47.2
   - Sub-Total

2. Other Personnel
   - a. Research Associates
   - b. Graduate Student
   - Assistants
   - c. 13 Undergraduate Students
   - d. 5 Secretarial Clerical
   - e. 6 Technical Shop
   - f. 0 Consultant

**TOTAL SALARIES AND WAGES**

**B. FRINGE BENEFITS (When Charged As Direct Costs)**

**TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A&B)**

**C. PERMANENT EQUIPMENT**

**TOTAL PERMANENT EQUIPMENT**

**D. EXPENDABLE SUPPLIES AND EQUIPMENT**

**TOTAL TRAVEL**

**E. TRAVEL**

1. Domestic-U.S. and its possessions
2. International

**F. PUBLICATION AND DOCUMENTATION COSTS**

**G. OTHER COSTS**

1. Equipment & Facilities Rental
2. Equipment repair and replacement
3. Field trips

**TOTAL OTHER COSTS**

**TOTAL COSTS**

**TOTAL COSTS ROUNDED**
MARINE TECHNICIAN TRAINING PROGRAM

March 1, 1974

The Marine Technician Training Program at Santa Barbara City College began in the fall of 1968 and is currently in its sixth year. The program received Sea Grant support from its inception in 1968 through the 1972-73 school year, and is completely institutionalized at this time. The Santa Barbara Community College District is able to support the program in the area of instructional costs. However, it lacks the resources to provide the program with the new equipment that is required to keep it current with the rapidly expanding technology and capabilities of the diving service industry. To insure the continued effectiveness of the program, we are seeking Sea Grant support in the area of new equipment for the coming school year.

The primary objectives of the Marine Technology program at Santa Barbara City College are to prepare qualified Marine Diving Technicians for the offshore industry. The placement of the graduates of the program and their subsequent success on the job continue to be excellent. Forty-four (44) students were graduates in June of 1973. A January 1974 survey shows that thirty-eight (38) or 87% were placed, or found jobs, in the offshore industry--mostly with the large diving service companies. A distribution of employment is as follows:

cont.
<table>
<thead>
<tr>
<th>Company</th>
<th>Number of 1973 graduates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taylor Diving and Salvage, Inc.</td>
<td>18</td>
</tr>
<tr>
<td>Belle Chasse, Louisiana</td>
<td></td>
</tr>
<tr>
<td>Ocean Systems, Inc.</td>
<td>7</td>
</tr>
<tr>
<td>Reston, Virginia and Santa Barbara, California</td>
<td></td>
</tr>
<tr>
<td>Santa Fe Engineering and Construction, Inc. (formerly Fluor Ocean Services)</td>
<td>4</td>
</tr>
<tr>
<td>Houma, Louisiana</td>
<td></td>
</tr>
<tr>
<td>Oceanus, Inc.</td>
<td>3</td>
</tr>
<tr>
<td>Santa Barbara, California</td>
<td></td>
</tr>
<tr>
<td>Sub Sea International, Inc.</td>
<td>3</td>
</tr>
<tr>
<td>New Orleans, Louisiana</td>
<td></td>
</tr>
<tr>
<td>McDermott Diving Division</td>
<td>1</td>
</tr>
<tr>
<td>R. J. McDermott</td>
<td></td>
</tr>
<tr>
<td>Harvey, Louisiana</td>
<td></td>
</tr>
<tr>
<td>Oceanneering International, Inc.</td>
<td>1</td>
</tr>
<tr>
<td>Singapore</td>
<td></td>
</tr>
<tr>
<td>Self-employed commercial abalone diver</td>
<td>1</td>
</tr>
<tr>
<td>Santa Barbara, California</td>
<td></td>
</tr>
</tbody>
</table>

Total 38

Three (3) of the remaining six (6) 1973 graduates are continuing their education at four-year institutions. One (1) joined the Navy upon acceptance for diver training, and two (2) we have not been able to obtain reliable follow-ups on. Many of the graduates advance to supervisory positions after a year or so in the industry.

The rate of attrition from the program from year to year reached a low of less than 10% as of the beginning of the 1972-73 school year and has remained at this level to date. It is interesting to note this low attrition exists even though the industry periodically siphons off students prior to graduation in order to meet their work commitments.
A new Marine Technology facility is planned on the main campus. It is scheduled to be completed for the fall semester, 1976. We are presently working on plans and specifications.

The new facility will include instructional areas for diving and diving-support equipment training, including gas mixing and analysis, hyperbaric environmental control, marine engines and compressors, fluid power systems, and rigging. In addition, the new building will be the location for equipment storage and maintenance as well as the hub of ocean diving operations.

Ramsey Parks
Coordinator-Assistant Professor
Marine Technology
A. Salaries and Wages

1. Senior Personnel

a. 1 - (Co) Principal Investigator
   (1) H. Ramsey Parks
       College Diving Officer and Program Coord.
       II-13 plus 2 months
       One-half time Instruction
       One-half time Coordinator
       Plus two months 7/12 x 19,044 = 11,191

b. 9 Faculty Associates
   (1) H. Ramsey Parks 6.3 5.0 7,996
   (2) Jim G. Parker 30.0 10.0 14,627
       Hourly 4.3 1.4 1,260
   (3) Robert Christensen 30.0 10.0 16,712
   (4) Maurice E. Ryan, Jr. 14.0 4.7 8,648
   (5) Phil G. Olsen 5.0 1.7 2,387
   (6) William M. Miller 12.0 4.0 7,741
   (7) William G. Jorgensen 9.0 3.0 5,430
   (8) James E. Foxx 8.0 2.7 4,941
   (9) Edwin A. Soule 14.0 4.7 7,310

Totals 132.6 47.2 76,552 76,552

2. Other Personnel (Non-Faculty)

a.  
   b.  
   c.  Undergraduate Students
       M.T. 1 - Hourly @ 1.80
       M.T. 2 - 
       M.T. 3 - 
       M.T. 4 - 
       M.T. 5 - 
       M.T. 6 - 

       Hrs.  Salary 400 720
       400 720
       400 720
       400 720
       248 446

       Totals 2,248 4,046 4,046

   d. .5 - Secretary-Clerical
       Virginia Butler - 10 mos., ½ time = 3,205

   e. .6 - Technical
       Tom Onley - 12 mos. .6 x 9,131 = 5,479

   f. 1.0 - Consultant

Total Salaries and Wages 101,273

(Continued)
C. Permanent Equipment

Over $200 each - Capital Equipment - Marine Technology

Justification: The major portion of this request, $8,000.00, is earmarked for a high-pressure compressed air station for filling SCUBA tanks and other high-pressure storage cylinders. We spend in excess of $1,000.00 per year for this service from a local vendor. In projection, this acquisition would pay for itself in less than eight years. In addition, it would allow hourly student help to be diverted, from the considerable time spent in transporting SCUBA tanks to and from a local vendor for filling, to essential equipment and facility maintenance. The remainder, $2,570.00, is to replace diving equipment that has been in continual use for six years and for new equipment currently being used in the industry. Their justification is based solely on safety and instructional effectiveness.

1. Compressed air station $ 8,000.00
2. KMB-9 Diving Masks (2) 1,050.00
3. Lightweight gear bailout systems (2) 300.00
4. Scott oxygen dump masks (2) 430.00
5. Teledyne Model 320 oxygen analyzer (1) 550.00
6. Craftsweld underwater cutting torches (2) 240.00

TOTAL $ 10,570.00 10,570

D. Expendable Supplies & Equipment

Marine Technology

1. M.T. 1 - Rigging Supplies 440
2. M.T. 2 - Compressed Air 1,000
3. M.T. 3 - Mixed Gas - Sodasorb 500
4. M.T. 4 - Spare Parts & Tools 600
5. M.T. 5 - Burning Rods & Construction Materials 1,200
7. I.T. 2 - Paper and Reproduction Supplies 600
8. Welding 3 - Gas, Rods & Spare Parts 1,200

TOTAL $ 7,265 7,265

E. Travel

1. Conference & Travel 600 600

G. Other Costs

1. Equipment & Facilities Rental
   a. Small boats 1,400
   b. Ship Rental 3,750
   c. Building & Utilities (60% x $18,000) 12,669

TOTAL 17,819 17,819

(Continued)
2. Equipment Repair and Replacement
   a. Diving & Marine Equipment
   b. Reproduction (Blueliner)
   c. Machine Shop (30% of 4,000)
   d. Welding Shop (30% of 200)

   TOTAL  2,650

3. Field Trips
   a. Marine Technology

   TOTAL COSTS  $10,570  129,907

S.G. Funds  Grantee Share

MJE/hal
2/15/73