

Librascope Corporation, Glendale, California

## Tomorrow's Technology Today Naval Combat Control Systems ....from Librascope



Librascope has been designing and developing ASW weapon and combat control systems for the U.S. Navy and allied navies for more than 30 years.

Today, Librascope is the only contractor working on the two most advanced ASW submarine combat control systems in the world (U.S. and international). Librascope successfully competed for and is designing and developing (1) The combat control system and weapon subsystem for the U.S. Navy's attack class submarine SSN-21 SEAWOLF, and (2) The combat control system for the Royal Australian Navy's New Construction Type 471 Submarines.

# Librascope



# Operation Desert Storm . . .

## Field Service Personnel Support Troops

Librascope Field Service engineers, Eric Cartier and Bill Blakely, are currently stationed in the Persian Gulf, providing maintenance support to U. S. Army personnel operating Librascope-built TCT'S (Tactical Communications Terminals) and PCIU's (Programmable Communications Interface Units).

Under agreement with Loral Aerospace Corporation (formerly Ford Aerospace Corporation), the two Field Service engineers have joined Loral representatives in Saudi Arabia as a special MCS (Maneuver Control System) support group to the U. S. Army. Librascope-built PCIU's are used as a communications interface module in Loral's TCP (Tactical Computer Processor), and the U. S. Army's Common Hardware Software (CHS) equipment supplied by Miltope.

Before their departure to the Gulf, Eric and Bill were given classes in Saudi customs and NBC (Nuclear-Biological-Chemical) warfare.

The presence of the Field Service personnel plays a very important role in assuring Army personnel that there is help for them, if needed, in the operation and maintenance of both PCIU and TCT equipments.

According to Eric and Bill, their accommodations include a sleeping bag and an army cot in a building with 60 other contractors. The contractors take turns standing watch 2 hours every night for Scud attacks. "Whenever a Scud alert is sounded, everyone dons their protective clothing and gas masks and



Field Service engineers, Eric Cartier, left, and Bill Blakely, were issued military clothing (fatigues), chemical protective suits and gas masks before their departure to Saudi Arabia.

makes a beeline for the shelters," said Eric.

They receive two hot meals and one meal of 'field rations' daily.

Travel to and from the maintenance site, or billet, is by convoy, complete with armed guards.

The Librascope Field Service Office is in daily contact with our men. They report that both Bill and Eric are well, in good spirits, and relatively safe — except for one complaint — the Super Bowl playoff games were interrupted by Scud missile attacks! Anyone out there tape the games?

*The TCT is a compact, militarized, highly mobile device used in higher-echelon command centers for data processing, situation display, and general-purpose communications throughout the battlefield environment. The*

*Librascope-built TCT's have been in operation in Europe by the U.S. Army since 1981.*

*The PCIU's are designed for use with the Ford Aerospace Tactical Computer Processor (TCP) as a subsystem component of the U.S. Army's maneuver control system (MCS). MCS is one of five systems that make up the Army Command and Control System. It integrates the functions of Fire Support, Air Defense, Intelligence/Electronic Warfare, and Combat Service Support. ■*

### About the Cover

The cover of this month's Librazette features "Naval Combat Control Systems," the latest Librascope advertisement which appears in defense magazines, including *U. S. Naval Proceedings Institute*, *Seapower*, *Signal*, and *International Defense Technology*.

The advertisement also appeared in the 1990 annual publication of *JANE'S Fighting Ships*, and is scheduled for the March edition of the *U. S. Naval Proceedings Institute* to support Librascope's market exhibition at the Navy League's Sea-Air-Space Exposition to be held in Washington, D.C. in March.

Librascope is scheduled to display the Naval Combat Control Systems, Advanced Color Workstations/Displays, and High Speed Graphics Engines and Militarized Circuit Boards at the Sea-Air-Space Exposition. ■



# With the President . . .



*Open forums with the Company President, Dr. Walter Picker, are held throughout the year to report on the current status of the Company, and to answer employees' questions. The meetings are open to all employees and are held before the start of the work day. Meeting notices are posted on bulletin boards prior to the meeting date. The following is a report on an Open Forum held with Dr. Picker, on January 23, at 6:30 am. Eighty-nine employees attended the meeting. ■*

## 1990 Profitable Year for Librascope . . .

Dr. Picker reported that the Company's 1990 performance had been profitable, and that there was \$145M of fully funded backlog at the start of 1991.

In addressing the cancellation of the CATFAE program at the end of 1990, Dr. Picker stated that the cancellation was due primarily to insufficient government funding to enable the Marine Corps to keep the program going. "The Government made a point of letting Librascope know that we had been performing very well on the program," said Dr. Picker.

On the AN/BSY-2 program — "Meeting software schedules posed problems during 1990. The main priority for the Company this year will be to meet our schedules on the AN/BSY-2 program."

## Tightening of Defense Budget Makes New Business Difficult . . .

Dr. Picker reported that there are "several good business opportunities for the Company this year." Bids are out for the LCU (Light Weight Computer Unit) — a laptop computer program for the U. S. Army, and the PSCU (Portable Ship Control Unit) for

the U. S. Navy, to be provided for the SSN-21 Seawolf submarines and for possible backfit for the SSN-688 Los Angeles attack class submarine. "In addition, we are developing variants on BSY-2 workstation displays and software for other U. S. military applications.

"An award for the SQY-1 (Antisubmarine Warfare Combat Control System for Surface Ships), formerly the SQQ89i, was expected in the third quarter of 1990 but now is anticipated in the second quarter of this year. This is a joint effort with Westinghouse.

"Librascope is also teamed with Westinghouse on a United States/British effort — the SSTO (Surface Ship Torpedo Defense Program). This is a relatively small effort but has big possibilities in the future."

## Must Control and Reduce Costs . . .

"Our major goal for 1991 is to control and lower costs while maintaining our sales volume and our employment.

"As part of our overall cost reduction program, plans currently are underway to vacate Building 2. Most of the Bldg. 2 Product Support office personnel will be relocated to Bldg. 3 by the end of the first quarter. The remaining functions will be moved out by the end of the second quarter. This will result in an overall reduction of maintenance and operational costs to the Company. We also are seeking to relocate functions from Building 1."

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## *Thrust for 1991 - Good Performance by the AN/BSY-2 Program, New Business, and Control and Reduce Costs*

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## In the future . . .

"Librascope has positioned itself as a 'stand alone' company," said Dr. Picker. "However, an acquisition could still occur — or the Company could go public and acquire other companies — to that end we must remain as profitable as possible."

## Bicoastal Corporation still in Chapter 11 . . .

"Bicoastal is still in Chapter 11; however, significant progress has been made in resolving their legal problems. Another appeal is underway for Paul Bilzerian which may include a Supreme Court review later this year."



### "Could a consolidation of facilities involve an off-site move?"

"We have investigated the possibility of an off-site move. If we do not reach a reasonable agreement with the present landlord by the end of our lease in four years, we may have to relocate to a nearby site."

### "How big is the SQY-1 Program?"

"The SQY-1 Program (Antisubmarine Warfare Combat Control System for Surface Ships) is a \$30M to \$50M contract, depending on the final scope of our activities."

### "How close are we to being classified as a small business?"

"The number of employees and sales volume are what determine whether a company is classified as small or large. A small business is one with 500 to 1,000 employees. It is expected that Librascope will have about 800 employees by the end of the year, but with our sales volume we still do not qualify."

### "Who are the remaining Bicoastal subsidiaries?"

"Besides Librascope, there are three remaining Bicoastal subsidiaries:

<b>S3</b>	Columbia, Maryland (formerly Link) — produces simulators for nuclear power plants.
<b>MicroFlite</b>	Binghamton, New York (formerly Link) — produces commercial flight simulators.
<b>SimuFlite</b>	Dallas, Texas — provides integrated programs for business and commercial aircraft pilots."

### "What are we doing to get new business?"

"This is one area where we are spending more, rather than less. The problems that we face today are (1) there are more and more companies competing against us, particularly for Navy business, and (2) the defense budget is shrinking. We are lucky in that we have been getting more than our share of the business; but again, that business is becoming scarce."

### "Who are the Directors of Bicoastal Corporation?"

"The members of the Board of Directors of Bicoastal Corporation are David Tallent, a lawyer, and Harry Stephen, a real estate investor."

*Note: Effective February 1, John Kuhns was named Chief Executive Officer & Chairman, and Robert McDonald was named Vice President -Treasurer of Bicoastal Corporation. David Redmond continues as President and Chief Operating Officer of the Company.*

### "Does Paul Bilzerian own Librascope?"

"Yes, in the sense that Mr. Bilzerian is the general partner in the partnership that owns the stock of Bicoastal Corporation, which is the parent of Librascope. However, Mr. Bilzerian is not involved with the direct operation of Librascope."

### "What effect does Bilzerian's current legal status have on contracts being awarded to Librascope?"

"It could affect us if we allowed it; however, Mr. Bilzerian is not an officer or a director of Librascope, or a director of Bicoastal Corporation; therefore, we are separated and operate at arm's length."

### "What effect does the Bicoastal Corporation's bankruptcy status have on awarding Librascope contracts?"

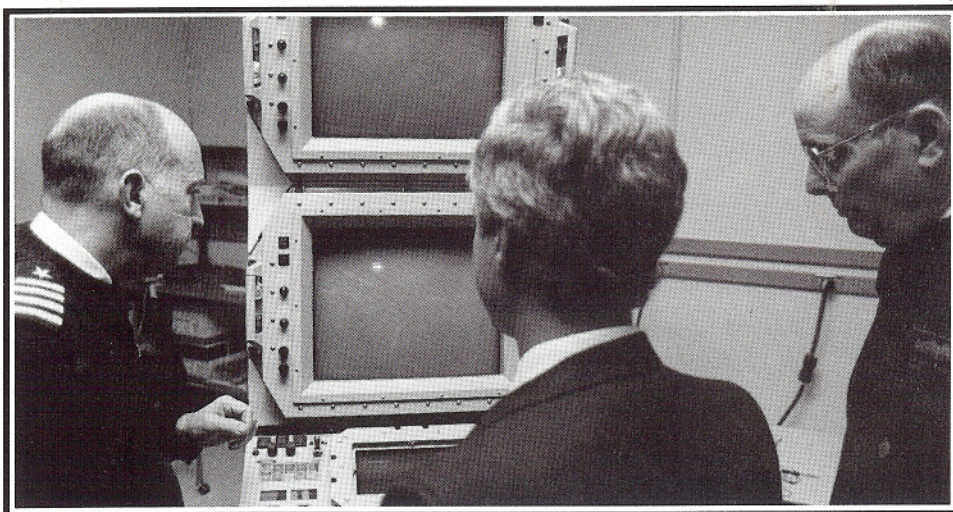
"Since Librascope is not in Chapter 11, there is no direct impact. However, Librascope's performance and financial viability become even more important in winning new contracts under these circumstances, since we now show our financial results to potential customers."

### "How safe is the pension plan and the 401K Plan today?"

"I don't see any reason to be concerned about the safety of either the pension plan or the 401K program — other than the normal market conditions in investments for the 401K program. They are both under Federal regulations, which makes them solid."



# AN/BSY-2 HIGHLIGHTS



Tom Cuda, AN/BSY-2 Displays Hardware Manager, demonstrates the first tactical Combat System Display Console (CSDC) to RAdm. Douglas Volgenau and RAdm. (sel) Scott Sears during the January 31 Executive Review Session.

## Checkout of First AN/BSY-2 Tactical Combat System Display Console (CSDC)

The first tactical Combat System Display Console (CSDC) was demonstrated to General Electric (GE) and the Navy during a recent Executive Review Session at Librascope. The CSDC is an integral part of the AN/BSY-2 Combat System to be installed on the Navy's new SSN-21 fast attack submarine.

According to Tom Cuda, Manager of AN/BSY-2 Display Hardware, the successful demonstration of the CSDC was made

possible by the combined efforts of Manufacturing, Test Equipment, and Engineering personnel. The technical integration team led by Jim Fults helped smooth the transition from Manufacturing to Engineering and set the stage for the rapid checkout of the CSDC. Andy Gardner and Rick Rabonovich developed Engineering Test Software that is being used to checkout the CSDC and demonstrate the console. ■

## Initial Production of Seawolf Approved Through '98

At a meeting on January 10, the Defense Acquisition Board of the Department of Defense approved low-rate, initial production of the SSN-21 Seawolf submarine through 1998, according to a report received from GE's Ocean & Radar Systems Division's Submarine Combat Systems Department.

"This is a very high level review," commented SCSD General Manager Frank DeBritz. "The Board's approval is a major milestone for the AN/BSY-2 because it is a strong indication that the Defense Department views the Seawolf as a viable program and that it will continue." ■



RAdm. (sel) Scott Sears

## Navy's AN/BSY-2 Program Manager Selected for Admiral

Capt. Scott Sears has been selected for promotion to Rear Admiral by the U. S. Navy. In December 1988, RAdm. (sel) Scott Sears was assigned as the Program Manager, AN/BSY-2 Submarine Combat System.

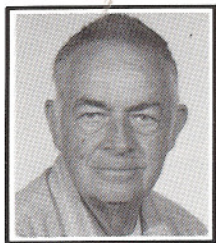
It is expected that he will continue in his current assignment. RAdm. (sel) Sears has had a distinguished career in the submarine service. All his friends at Librascope congratulate Scott for a most deserved promotion. ■

## 1990 at a glance . . .

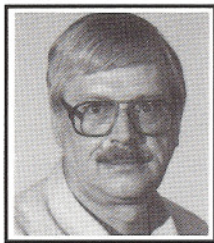
- ★ Critical design review (CDR) process completed for BSY-2.
- ★ Successfully completed Graphics Engine Critical Item Test.
- ★ Successfully completed Shock/Vibration Critical Item Test (CIT) of the CSDC.
- ★ Successfully completed Acceptance Testing of Drop 1 of Virtual Device Interface (VDI) software.
- ★ Delivered two commercial CSDC's to General Electric.



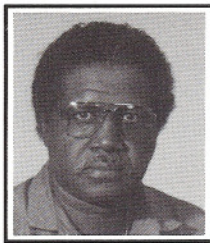
## Libravets thru Feb.



**David Conway**  
40 years  
Model Shop



**Robert Lovejoy**  
25 years  
Environmental  
Laboratory



**Larry Jenkins**  
25 years  
Final Assembly

### More Libravets:

**20 Years** — Betty Kent

**15 Years** — Davie Henshaw, Victor Netupsky, Gary Jasper, Ed Cassese, Richard Johnston.

**10 Years** — Raymond Nelson, Tim Grouell, Perle Robinson, Thomas Daly, Marty Lindusky, Charles Gillikin, Seen Chong, Mary Styffe, Rogelio Calderon, Gary Rever, Marilyn Hahn, Sally Miller.

**5 Years** — Greg Snyder, Lamar Poulson, Judy Griffiths, Karl Fetterhoff, Rene Hartogh, Bonnie Granger, Joseph Kosmack, Alice Jewell, Mary Mendoza, Perla Grgurevic. ■

## Promotions

**Dan Gowanlock** from Programming Systems Specialist to Programming Research Specialist; **Richard Varnon** from Project Manager to Manager Integrated Logistics Support; **Andrina Fletcher** from Secretary to Pricing Clerk; **Blair Belsheim** from Supv. Contract Accounting to Supv. Pricing & Contract Accounting; **Bahram Khandan** from Quality Assurance Software Coordinator to Quality Assurance Software Analyst. ■

## New Employees

**Jill Wadleigh**, Staff Assistant; **Eric Johnson**, Tech Programmer; **Steven Hartman**, Prog. Systems Specialist; **Stephen Higdon**, Prog., Systems Specialist. ■

### ON SALE NOW . . .

**"KODJ OLDIES" 2nd Anniversary Show**  
at the Amphitheatre — Feb. 22  
Tickets \$14.50 each (Rows AA-DD, Sec. 7)  
in the Employee Services Office  
Sales Hrs: 11:30 to 12:30 pm daily

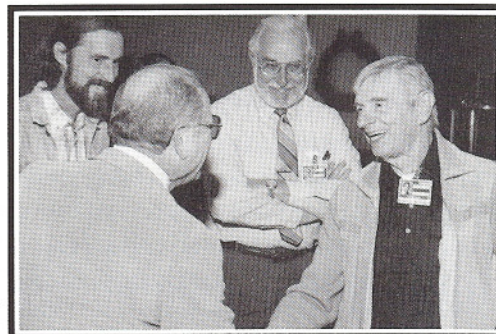
## Retirements



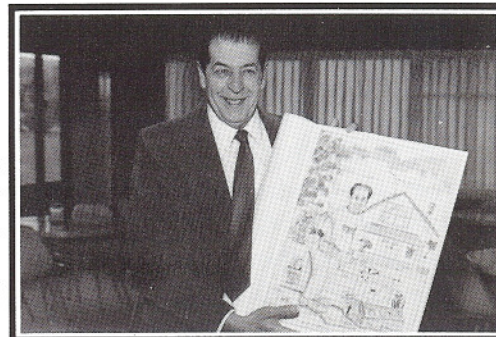
**Bernie Stahle**  
26 years  
Operations  
with  
from left,  
Sally Craig,  
Rosemary  
Smith, Dana  
Thompson,  
Virginia Ayala



**Earle Tempesta**  
37 years  
Purchasing



**Bob McFarlin**  
43 years  
Mgmt.  
Information  
Systems



**Walter O'Connor**  
16 years  
Mfg.  
Planning  
Engineering