



**COMMISSIONING
OF THE
UNITED STATES COAST
GUARD
LORAN SUPPORT UNIT**

**WILDWOOD, NJ
MAY 16TH, 1997**

PROGRAM SCHEDULE

INTRODUCTION

ARRIVAL OF OFFICIAL PARTY

Lieutenant Commander Charles A. Schue, III
Prospective Commanding Officer

Captain Fredrick A. Adams
Commanding Officer, Electronics Engineering Center

Captain James T. Doherty, Jr.
Commanding Officer, Navigation Center

PRESENTATION OF COLORS

INVOCATION

Chaplain Bernard Welch

REMARKS, CHARGE, AND READING OF ORDERS

Captain Doherty
Captain Adams
Lieutenant Commander Schue

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FLYING OF COLORS OVER THE NEW COMMAND

INSPECTION OF THE TROOPS

Captain Doherty
Lieutenant Commander Schue

BENEDICTION AND RETIRING OF COLORS

DEPARTURE OF OFFICIAL PARTY

CONCLUSION OF OFFICIAL CEREMONY

RECEIVING LINE AND OPEN HOUSE

INFORMAL RECEPTION at the Beach Hut

LCDR CHARLES ANDREW SCHUE, III, USCG
PROSPECTIVE COMMANDING OFFICER
COAST GUARD LORAN SUPPORT UNIT WILDWOOD

Lieutenant Commander Schue assumes command of the Loran Support Unit (LSU) Wildwood, NJ having formerly served as the Chief, Loran-C Branch at the Coast Guard Electronics Engineering Center (EECEN). He is a "mustang", having enlisted in the Coast Guard in 1974 and climbed the ladder through the enlisted, warrant, and officer corps. He achieved the rank of Chief Electronics Technician in 1981, and was appointed to Chief Warrant Officer in 1984. After completing Officer Candidate School, he was commissioned a Lieutenant Junior Grade in 1987. He holds a Master of Science degree in Electrical Engineering from the Naval Postgraduate School, Monterey, California, where he specialized in robotics. His Master's thesis research, performed in Japan and funded by the National Science Foundation, was the first ever joint United States-Japanese effort in autonomous robotics. He also holds a Master of Science Degree in Engineering Management from Western New England College. LCDR Schue is a Certified Engineering Technologist and a Certified Quality Engineer.

During his three tours at EECEN, Lieutenant Commander Schue has, as a technician, engineer, or manager, played a part in every major technological advancement in the LORAN Navigation system since 1975. He has helped integrated circuits replace vacuum tube timers, has replaced tube transmitters with solid-state transmitters, and has helped the Calculator-Assisted Loran Controller and Remote Operating System take over dull, routine watchstanding tasks. Most recently, he has been the driving force behind completion of the Loran Packet Switching Communications and the Loran Consolidated Control System projects, initiatives that will save the Coast Guard over \$1.5M/year and over 39 billets.

As a Quality Assurance Representative at Coast Guard Headquarters, he provided technical, contract, and quality assurance on systems as diverse as the Solid-State Transmitter, R-41X radar, Sea-Based Aerostat, HH-60 Jayhawk, 47' Motor Life Boat, and 120' Heritage Class Prototype Patrol Boat. He has completed three operational shore assignments in Alaska, Florida, and Japan as well as assignments to Governors Island, NY, Bedford, MA, and Phoenix, AZ.

Lieutenant Commander Schue's military awards include the Coast Guard Commendation Medal, two Coast Guard Achievement Medals, the Commandant's Letter of Commendation Ribbon, the Military Outstanding Volunteer Service Medal, and numerous service and unit awards. He is married to the former Lori Lee VanKirk of Webster, Pennsylvania. They have two children: Ian Fredrick, sixteen, and Tirenna Jo, eleven.

CAPTAIN JAMES T. DOHERTY, USCG
COMMANDING OFFICER
COAST GUARD NAVIGATION CENTER

Captain James T. Doherty recently directed implementation of the Coast Guard's National Streamlining Plan. This followed his assignment as Deputy Director of the Streamlining the Coast Guard Organization Study. He has served as the Commandant's Strategic Planner, and earlier as the Planning and Budget Staff Chief in the Office of Navigation Safety and Waterway Services and in the Office of Command, Control and Communications. During this period, he was also project manager for international negotiations to transfer Coast Guard Loran operations in Europe and Japan to host nations.

Captain Doherty received his commission in 1969 and served at sea aboard the Coast Guard Cutter MADRONA. He subsequently held a variety of assignments in radionavigation systems, electronics engineering, and command, control and communications. At the Electronics Engineering Center, he was a system design engineer for remote and automated control of Loran. In Activities Europe, he was the Loran Operations Officer and developed concepts of operation for these new systems. In other assignments, he directed several large information system projects, including developing requirements of the standard workstation acquisition and overseeing deployment of the Marine Safety Information System. A highlight of this period was his tour as Commanding Officer, Coast Guard Communications Area master Station Atlantic (CAMSLANT).

Captain Doherty is a graduate of the Coast Guard Academy, as well as the Naval War College and State Department Senior Seminar. He holds Master's Degrees in electrical engineering from the Massachusetts Institute of Technology and in administrative science from the Johns Hopkins University. He was the 1994-1995 Coast Guard Fellow in the MIT Seminar XXI program in international relations.

Captain Doherty's military awards include the legion of Merit, four Meritorious Service Medals, and three Coast Guard Commendation Medals. A native of Meriden, Connecticut, Captain Doherty is married to the former Patricia Doebler of Williamsport, Pennsylvania. They have three grown sons.

MISSION

The United States Coast Guard is tasked with operating and maintaining the Loran-C radio navigation service to meet the needs of air, land, and marine users at least until the end of the year 2000. Under the control and supervision of the Chief, Office of Electronic Systems (G-SCE), the Loran Support Unit provides the equipment, software, engineering, and technical support for the Loran-C navigation system through a variety of projects, including design, modification, and field testing of electronic equipment. LSU is also assigned responsibilities as the Systems Management and Engineering Facility (SMEF) for all Loran system equipment and Coast Guard peculiar software.

The LSU relies on an extensive partnering network with the Sensors and Systems Division (G-SCE-2), and the Radio Aids Division (G-OPN-3) at Coast Guard Headquarters; the Maintenance and Logistics Commands, Engineering Support Units, and Engineering Support Detachments; other Headquarters Commands such as the Navigation Center, Engineering Logistics Center, and Telecommunications and Information Systems Command; the Training Center at Petaluma, California; the Volpe National Transportation Systems Center, and the Coast Guard Academy to ensure that only the most economical and efficient solutions are provided to our operational counterparts in the field. Presently, the LSU supports six Control Stations, 31 Loran-C Transmitting Stations, and 30 Primary Chain Monitoring Sites throughout North America. International agreements also require we provide support to our Canadian and Russian neighbors, with whom we share radio navigation responsibilities across our common land and sea borders.

The basic concept of the mission of the Loran Support Unit lies in its unique ability to handle electronics problems on a *system* basis. This involves a study of the performance of electronics equipment as components of a complete system, from primary power source to radiated or received signals. In the development of most new systems, evaluation under laboratory conditions is the final requisite step prior to approval to proceed with field testing, evaluation, and, hopefully, installation.

LSU laboratories house a host of electronics equipment that provide an interesting diversity for engineers and technicians alike. 1960's water-cooled vacuum tube transmitters compete with their advanced solid-state counterparts. 1965 PDP8 octal computers work right next to the highest performance tactical advanced computer systems. Atomic clocks give us precise time, and sophisticated communications equipment allows us to keep remote equipment synchronized. All of this equipment is installed and maintained to represent every possible field configuration, thereby enabling engineering investigations to duplicate problems reported by the field. LSU has the unique privilege of operating the only Loran transmitting antenna in the world available for real-world testing.

Most every electrical engineering specialty is represented at the LSU: power systems, computer systems, telecommunications, control systems, digital signal processing, and electromagnetics. Engineers and technicians thrive on the ability to design, develop, test, evaluate, and field equipment and systems that leverage technology to decrease cost, increase efficiency, and reduce maintenance of the "*World's Premier Radio Navigation System*".

THANK-YOU

Nothing of value comes without the help of others. The Command and Crew of the newly formed LSU Wildwood would like to thank the following for their extraordinary efforts in preparation for the stand up of this unit:

The Assistant Commandant for Systems (G-S);

The Director of Command, Control, Communications, and Computers (G-SC);

The Chief, Office of Electronic Systems (G-SCE);

The Command and Crew of the Electronics Engineering Center, especially Captain Adams, LT Dixon, and DCC Iozzo;

CWO Bill Carson, MU1 Buggs, and Mr. Robert Dietz from TRACEN Cape May;

TT2 Coons and TT3 Slanina from Electronics Support Detachment Cape May;

TTC Goodreau from Group/Airsta Cape May;

ETC Siegel from OSC Martinsburg;

An especial "THANX" to the entire crew of the LSU, both old and new, who have endured through the EECEN closure and the LSU standup, while continuing to meet our project milestones.

All those *Loranimals* who we may not see in the audience, but who we feel in spirit, and

The families and friends of LSU personnel, without whom nothing we do would be important.



NOW IT STARTS!