

MINE LINES

TOPICS IN THE ART OF MINE WARFARE
Awareness Precedes Preparedness

Volume 7, Number 2

May, 2001

Published by the Mine Warfare Association (MINWARA)
To Enhance Communications within the Mine Warfare Community

ANNOUNCING

MINWARA Summer 2001 Regional Conference
Sea Mine Warfare
An Assessment Update

JULY 23-26, 2001

Co-Sponsors

Coastal Systems Station, Panama City, FL

The Mine Warfare Association

5th International Symposium on
Technology and the Mine Problem
Announcement & Call for Papers

APRIL 21-25, 2002

Naval Postgraduate School

Monterey, California

Second Australian/American Joint Conference

Sydney, Australia

MARCH 27-29, 2001

Quick Look Summary

LETTER FROM THE PRESIDENT

Dear Colleagues,

In April 1999, the Mine Warfare Association (MINWARA) and Coastal Systems Station, Panama City sponsored a sea mine warfare conference on the Fleet Engagement Strategy (FES) and Mainstreaming Mine Warfare.

This conference theme was selected, based on VCNO issuance of the FES in 1998. The FES tasked Navy organizations to provide plans of action for the mainstreaming of mine warfare, anticipating the introduction of organic mine countermeasures capabilities in combatant units in 2005. At the time of the April 1999 conference on the FES status, plans of action were embryonic and implementation of plans had barely begun. Many issues for mainstreaming mine warfare still required further action.

The Naval Studies Board (NSB) has recently conducted an assessment of naval mine warfare in response to CNO tasking. It is anticipated that the CNO and Opnav will review the NSB assessment in June or early July. Additionally, a draft Fleet Mine Warfare Concept of Operations has been written and used in several, recent fleet exercises.

Accordingly, the Mine Warfare Association, in co-sponsorship with Coastal Systems Station, intends to present a conference on Sea Mine Warfare: An Assessment Update on 23-26 July 2001 at the Bay Point Marriott Hotel conference center in Panama City FL. Adm. Robert J. Natter (CINCLANTFLT) is the keynote speaker and Adm. Vernon Clark (CNO) is invited as the banquet speaker.

The conference agenda will review the results of the NSB assessment on the first day, as a backdrop to presentations by key Navy and Marine Corps speakers. It is anticipated that speakers will address identified assessment shortfalls in the context of their presentations, in terms of plans and actions to correct shortfalls.

A significant number of flag and general officers are invited (many confirmed) to address assessment shortfalls. Presentations are expected to address both organic and dedicated mine countermeasures forces issues, fleet countermine operations and mining operations, and counter-mine/counter-obstacle operations for USMC power projection ashore.

The conference should provide an excellent review of Navy and Marine Corps efforts to bring mine warfare capabilities to their maximum potential in the years ahead. An audience of approximately 200-plus government and industry attendees, many of whom will be key contributors to achieving this potential, is anticipated. The proposed agenda, including confirmed speakers, is on page 5-6, and at www.minwara.org.

We hope many of you will attend this timely and important conference.

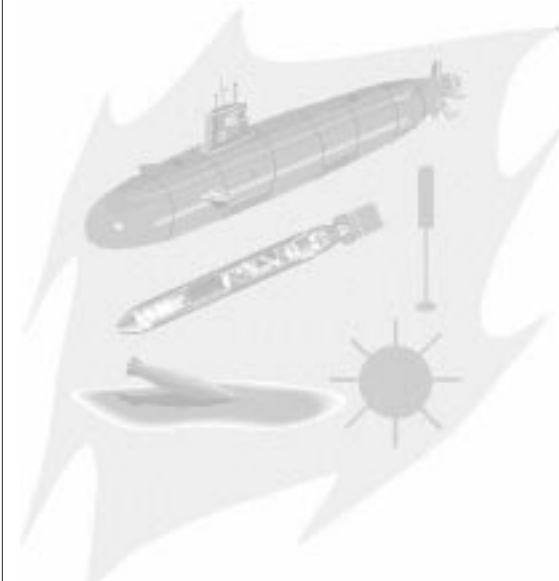
John D. Pearson
RADM, USN(Ret)
President

MEMBERSHIP APPLICATION

THE MINE WARFARE ASSOCIATION

c/o Larry Kelly, CAPT, USN (Ret), Secretary-Treasurer
6436 Randall Dr., Hughesville MD, 20637 Tel. 301-932-8954
E-mail: lakelly@rayva.org

Concerning all aspects of Sea-Land Mine Warfare and Explosive Ordnance Disposal.



Date _____

Name _____

Address _____

Tel (h) _____ Tel (w) _____

Email _____

Corporate Affiliation _____

Corporate Address _____

Nationality _____

CLASS OF MEMBERSHIP

(All schedules except Life Membership are on an annual basis)

Individual Memberships

- Student \$15
- Annual Membership \$25
- Life Membership \$250

Corporate Memberships

- | | | (LIFE/ANNUAL) |
|-----------------------------------|-------------------|---------------|
| <input type="checkbox"/> Bronze | \$500 | (0/2) |
| <input type="checkbox"/> Silver | \$1000 | (0/4) |
| <input type="checkbox"/> Gold | \$2000 | (1/2) |
| <input type="checkbox"/> Platinum | \$5000 or Greater | (2/2) |

Corporate membership from private or corporate foundations also includes individual (Life/Annual) memberships as per the above schedule.

Remittance:

U.S Dollars Check or Money Order payable to Mine Warfare Association

PROFESSIONAL INTERESTS

Operational:

- Naval
- Demining
- Management
- Field Work
- Unexploded Ordnance
- Political Liaison
- Land
- Research and Development
- Economics
- Fundraising
- Public Education

Geophysical Interests:

- Land
- Surf Zone
- Deep Water
- Beach
- Shallow Water

Language skills (Please specify):

Willingness to Serve MINWARA:

- Board Member
- Conference Organizer
- Clerical Assistance
- Fundraising
- Other (Please specify):
- Officer
- Membership
- Corporate
- Presenter

MINWARA SUMMER 2001 REGIONAL CONFERENCE

SEA MINE WARFARE – AN ASSESSMENT UPDATE
JULY 23-26, 2001

Baypoint Marriott Hotel, Panama City, Florida

CO-SPONSORS

Mine Warfare Association • Coastal Systems Station

MONDAY 23 JULY

1015-1600

Golf Tournament Meadows
Golf Course

1500

Registration Opens at
Baypoint, Upper Lobby

1830-2000

Welcome Reception –
Baypoint (No Host)

TUESDAY 24 JULY

0700-0800

Registration and Continental
Breakfast

0800

Welcome/Theme Setting
RADM John D. Pearson,
USN (Ret.), MINWARA
President*

0810

Welcome Address
CAPT Fred Schutt, USN,
Commanding Officer,
Coastal Systems Station*

0820

Welcome/Reiteration of
Theme/Introduction of ADM
Stan Arthur, USN (Ret.)
MGEN Bill Whitlow,
USMC, OPNAV N75*

0830

Enduring Mine Warfare
Lessons from Desert
Shield/Storm
ADM Stan Arthur, USN
(Ret.)

0915

Keynote Address
ADM Robert Natter, USN
(CINCLANTFLT)*

1000

Break

1030

Naval Studies Board's Mine
Warfare Assessment Results
– Offshore MCM, Inshore
MCM, Mining
Mr. Gene Porter, Study
Chair*

1200

Lunch – Luncheon Speaker
(DASN MUW)*

1330

USMC Requirements and
Countermine/Counter
Obstacle (CMCO) Progress
BGEN Gordon Nash,
Director of Operations, (HQ,
USMC)*

1415

The Future of
Mainstreaming Mine
Warfare and the Transition to
Organic Mine
Countermeasures (Doctrine
and Tactics
Issues/Perspective)
VADM Willy Moore*, USN
(Commander 5th Fleet)

1500

Break

1530

Panel on Mine Warfare
Requirements Shortfalls
Moderator: RADM John D.
Pearson, USN (Ret.)
Panel Members: Opnav
N7/N75*/N76/N77/N78/Mr.
Porter*

1830

Banquet Reception
(Baypoint)

1930

Banquet - Banquet Speaker
ADM Vernon Clark*, USN,
(Chief of Naval Operations)

WEDNESDAY 25 JULY

0700-0800

Continental Breakfast

0800

Mainstreaming Mine
Warfare and the Introduction
of Organic Mine
Countermeasures – OPNAV
Issues/Perspective
MGEN Bill Whitlow, USMC
(Opnav N75)*

0845

Acquisition Programs
RADM Mike Sharp, USN
(PEO Mine and Undersea
Warfare)*
(Program Managers will
assist)

1015

Break

1045

Mainstreaming Mine
Warfare: Education and
Training Initiatives
RADM David Brewer, USN
(Vice CNET)*/Capt Gary
Belcher, USN(CO MWTC)

1200

Lunch – Speaker
RADM Jay Cohen, USN,
Chief of Naval Research*

1330

MCCDC Ship to Objective
Maneuver CMCO
Requirements
MAJ Tim Seamon, USMC

1415

ONR UUV Results in Fleet
Battle Experiment
Hotel/Kernel Blitz 01
Col. Bill Schopf, USMC
(Ret)*

1500

Break

1530

ONR Surf Zone/Beach Zone
CMCO Future Systems
Mr. Brian Almquist (ONR
Program Manager)*

1730

CSS Open House /
Shrimp Broil

THURSDAY 26 JULY

0700-0800

Continental Breakfast

0800

The Future of
Dedicated/Supporting MCM
Forces
RADM Joe Betancourt, USN
(COMINWARCOM)*

0845

MCM (X) Options Study
Dr. David Skinner
(Executive Director, CSS)*

0930

Break

1000

The Future of Navy Mining
Capability
CDR Ron Swart, USN
(COMOMAG)*

1045

Industry Panel – Impressions
of the Way Ahead
Moderator: RADM Fran
Holian, USN (Ret.),
Northrop Grumman
Panel Members: Mr. Frank
Debritz*, Lockheed Martin;
Mr. Jim Boyle*, Raytheon;
Mr. Bill Herman, Boeing;
Mr. Frank Otto, EDO Corp*;
Mr. Bill Key, Klein
Associates*

1200

Conference Wrapup –
MINWARA President

MINWARA SUMMER 2001 REGIONAL CONFERENCE

SEA MINE WARFARE

An Assessment Update

MEETING LOCATION:

Bay Point Resort Village

A Marriott Golf & Yacht Club

4200 Marriott Drive

Panama City Beach, Florida 32408

Reservations Phone: (800) 874-7105

Guest Fax: (850) 236-6158

The award-winning Bay Point Resort Village is located on an 1,100 acre wildlife sanctuary overlooking scenic St. Andrews Bay and the Gulf of Mexico. All rooms have individual climate control, telephone with message light, dataport and voice mail, color TV, AM/FM alarm clock radio, cable movie channels, in-room pay movies, iron and ironing board and hair dryers.

RATES:

Government: prevailing per-diem rates established for CONUS for 2001.

Standard: \$119.00+ single/double, \$139.00+ triple.

Rates are subject to applicable taxes and fees (currently 10% per room, per night) in effect at the time of check-in.

RESERVATIONS:

Meeting Name: MINE WARFARE ASSOCIATION

Reservation Phone: (800) 874-7105

Cut-off Date: June 22, 2001

All reservations must be accompanied by a first night room deposit or guaranteed with a major credit card. The hotel will not hold any reservation unless secured by one of the above methods. If canceling an individual reservation, the reservation must be cancelled 10 days prior to arrival date to avoid being charged one night's room and tax.

Reservations must be received on or before June 22, 2001 at 5:30pm est. After June 22, reservations will be accepted on a space-available basis.

SPONSORSHIP PROGRAM

Corporations and agencies are invited to participate as partners in presenting MINWARA's Summer 2001 Regional Conference. Historically, this conference has been an excellent opportunity to get to know potential clients and new markets, and an exceptional venue to highlight your services, products and capabilities. As with previous MINWARA conferences and workshops, this conference underscores the need for an increased level of communication, integration, and shared information between users and producers of systems associated with all aspects of the mine warfare program.

Investment

For a one-time fee of \$1,500.00 US paid in advance of June 15, 2001, sponsors will receive:

- 1) Prominent listing on the conference web site.
- 2) Recognition from the podium.
- 3) Exhibit space: one 6-foot dressed table for tabletop exhibit.
- 4) One individual registration to the conference including lunches and dinners.
- 5) Face-to-face interaction with attendees during all meeting breaks.
- 6) Your promotional item included in the attendance packets.

Information

For more information, please contact Lee Hunt <lhunt@nas.edu> or call (703) 765

MINWARA REGIONAL CONFERENCE

REGISTRATION FORM

Please Type or Print Clearly

Mr. Ms. Dr. First: _____ Middle: _____ Last: _____
or Military Rank/Branch

Name as you would like it to appear on your Name Badge: _____

Organization (will appear on your Name Badge):

Mailing Address: _____

City: _____

State/Province: _____

Zip/Post Code: _____ Country: _____

Fax: _____

Email: _____

Please do not publish the above information.

I have the following Dietary Restrictions:

I plan to attend: Dinner on Tuesday, 7/24
 Shrimp Boil on Wednesday, 7/25

I have made plan to make
accommodations arrangements at:

Marriott Bay Point Other _____

Arriving on: _____

Departing on: _____

REGISTRATION FEES

	<i>Before 7/2</i>	<i>After 7/2</i>
General Registration <input type="checkbox"/>	\$345.00	\$395.00
MINWARA Member <input type="checkbox"/>	\$295.00	\$345.00
Active Military <input type="checkbox"/>	\$170.00	\$220.00
MINWARA Active Military <input type="checkbox"/>	\$120.00	\$170.00
Banquet Guest <input type="checkbox"/>	\$50.00	
Golf Tournament <input type="checkbox"/>	_____ @	\$75.00

Total Enclosed: _____

Method of payment:

- Check Money Order
 Visa/MasterCard American Express
 Discover

Credit Card #: _____

Expiration Date: _____

Cardholder: _____

Signature _____

Please complete this form and send before **July 2, 2001** to:

MINWARA Regional Meeting
824 Munras Ave., Suite C, Monterey CA 93940
Phone: (831) 373-0508 Fax: (831) 373-0460 E-mail: conference@dmc2000.com

Registrations submitted without payment will not be processed.
Make checks payable to "**MINWARA Regional Meeting**"
Cancellations must be submitted in writing.
A \$50.00 processing fee will be retained on all cancellations
received after 7/2/01 No refunds will be issued for
cancellations received after 7/16/01.

Look for more info at www.minwara.org

FIFTH INTERNATIONAL SYMPOSIUM

ON TECHNOLOGY AND THE MINE PROBLEM

Naval Postgraduate School, Monterey CA 93943

CALL FOR PAPERS

The Fifth International Symposium on Technology and the Mine Problem is planned for April 21-25, 2002. Our intention is to return to a primary emphasis on technology and technical research, contributing to major systems applications in mine technology, naval mine warfare, land mine warfare, humanitarian demining, and/or unexploded ordnance site remediation.

We expect that technology and technical research papers will fill a significant portion of plenary sessions and nearly all parallel sessions. A reduced number of Department of Defense senior representatives, compared to the past, will speak to operational requirements and the technical shortfalls/challenges in the major application areas noted above.

Papers for plenary presentation will be selected on merit and potential breadth of application across more than one application area. A balance between land and sea applications will be another factor in plenary paper selection.

A Peer Review Process will be available through the Society of Counter-Ordnance Technology (SCOT). Papers accepted through this process will be published in the new, refereed, electronic Journal of the Society for Counter-Ordnance Technology. SCOT will maintain archival copies and make papers available to the public at cost.

Please use the enclosed Abstract Submission Form. Abstract sent without the Abstract Submission Form will be returned.

Albert M. Bottoms, General Chair, NPS Symposium Series (amb@demine.org)

Papers are sought in the following technology/technical research areas. Paper submissions in areas not listed will also be considered for applicability and presentation.

Environment (Sea)

Environment (Land)

Acoustic Sensors

Electro-Magnetic Sensors

Optical Sensors

Biological/Biomimic Sensors

Nuclear Sensors

Chemical/Biochemical Sensors

Sensor Processing/Fusion

Disposal Technologies

Fusing/Explosives (Energetics)

Reconnaissance/Surveillance

Risk Management

Unexploded Ordnance Issues

Robotic Applications (including Remote sensors)

Field Experience (Sea and Land)

THE SOCIETY OF COUNTER-ORDNANCE TECHNOLOGY (SCOT)

Mr. Al Bottoms, founding president of MINWARA, is pleased to announce the formation of SCOT, recently. SCOT is intended to educate government, industry, and academia on the issues of counter-ordnance threats and remediation through technologies. This effort is complementary to the MINWARA primary focus on land and sea mine warfare issues and technologies. The charter was granted effective 22 February 2001.

Eight members of the SCOT Board of Directors were present at the Australian-American conference, and were able to recruit, as Associate Members of the Board, Dr. Al Carruthers of Canada and LTGEN Vasu of Thailand.

The website has been established at www.demine.org/SCOT. The website is ready to receive contributed technical papers for the electronic Journal that will be put up on this website. Papers contributed will be read by three or more reviewers/referees, so that academic quality can be maintained in this effort. The electronic journal will be called "THE JOURNAL OF COUNTER-ORDNANCE TECHNOLOGY".

For membership and other SCOT information, please refer to the website.

ABSTRACT SUBMISSION FORM

ABSTRACT INSTRUCTIONS

Abstracts for peer review

February 1, 2002

Please use the enclosed Abstract Submission Form.

Abstracts sent without the Abstract Submission Form will be returned.

Send a written copy of your abstract with completed form to:

5th International Symposium
c/o Carol Killip
DMC Management
824 Munras Ave., Suite C
Monterey, CA 93940

PAPER INSTRUCTIONS

Papers for peer review

February 1, 2002

All other papers

March 15, 2002

Papers must be in English

Papers to be 10 pages or less

Please use the IEEE format for your paper.

Information may be obtained at the following URLs:

General information for authors

<<http://www.ieee.org/organizations/pubs/transactions/information.htm>>

PDF version of IEEE "Information for Authors" kit

<<http://www.ieee.org/organizations/pubs/transactions/auinfo97.pdf>>

Submit both a camera ready and an electronic copy of your paper conforming to the criteria below

Platform: Mac Windows DOS Unix

Media: Zip Diskette IBM Jaz CD

Format: ASCII text
 Rich Text Format
 MS Word Version: _____
 Power Point Version: _____
 Word Perfect Version: _____
 HTML
 Acrobat (.pdf)

Fonts: Times Times Roman
 Helvetica Ariel

Figures: eps jpg pict gif

Animation/Video: Quicktime AVI

Paper Title

Note: Please disinfect your files for Viruses. Any files received with a virus will be returned unopened and subsequent submissions will not be accepted.

I feel this paper is most suited for inclusion in:

- | | |
|--|--|
| <input type="checkbox"/> Environment (Sea) | <input type="checkbox"/> Environment (Land) |
| <input type="checkbox"/> Acoustic Sensors | <input type="checkbox"/> Electro-Magnetic Sensors |
| <input type="checkbox"/> Optical Sensors | <input type="checkbox"/> Biological/Biomimic Sensors |
| <input type="checkbox"/> Nuclear Sensors | <input type="checkbox"/> Sensor Processing/Fusion |
| <input type="checkbox"/> Risk Management | <input type="checkbox"/> Reconnaissance/Surveillance |
| <input type="checkbox"/> Disposal Technologies | |
| <input type="checkbox"/> Unexploded Ordnance Issues | |
| <input type="checkbox"/> Chemical/Biochemical Sensors | |
| <input type="checkbox"/> Fusing/Explosives (Energetics) | |
| <input type="checkbox"/> Field Experience (Sea and Land) | |
| <input type="checkbox"/> Robotic Applications (including remote sensors) | |

Presenting Author

Name _____

Institution _____

Address _____

Day Phone _____

Fax _____

E-mail _____

Corresponding Author

Name _____

Institution _____

Address _____

Day Phone _____

Fax _____

E-mail _____

If you have questions, please contact:

DMC Management

Carol@DMCcompanies.com (831) 373-0508

THE HISTORY LOCKER

WORLD WAR II PACIFIC MINING

Of the 8.9 million tons of Japanese shipping sunk during the Pacific Campaign of World War II, the US Strategic Bombing Survey credits submarines with 54.7 percent, aircraft attack with 30.8 percent, mines with 9.3 percent, and gunfire and accidents with the remainder. However, mines accounted for the majority of their score in the last four and a half months of the war; submarines and aircraft took four and a half years.

The US Army Air Force, with early help from the RAF and RAAF, laid 97 percent of the aerial mines in the Pacific Theater at a loss of 55 aircraft.

Lt. Gen. Nathan F. Twining, Commander, Twentieth Air Force, was so impressed with the AAF mining accomplishments that he recommended that sea control by aerial mining be given serious consideration in future planning.

In 1946, General Curtis LeMay, then deputy chief of the Air Staff for R&D, commissioned a study to "determine the extent to which the AAF should control the development of aerial mines and their emplacement as a strategic weapon."

Although the study results were positive, the initiative faded ultimately to a collateral mission due to several causes - the establishment of the AAF as a separate service, the beginning of the Cold War, the establishment of the Strategic Air Command, and the ICBM and space races.

In this era of jointness, and the Navy's apparent position with respect to the next generation of mines, perhaps it is time for the Air Force to rethink the Twining/LeMay vision.

(Source: Chilstrom, John S., Major, USAF, Mines Away! The Significance of US Army Air Force Minelaying in World War II, Air University Press, October 1993).

IN MEMORIAM

BEVERLY BRIGGS

The Mine Warfare Association and the Society for Counter-Ordnance Technology are saddened by the untimely death on April 27 of Ms. Beverly Briggs, Program Officer for Humanitarian Demining at the Night Vision Laboratory, Fort Belvoir. It is up to the rest of us to take up the quest with renewed vigor in her memory.

John D. Pearson, President of the Mine Warfare Association

Albert M. Bottoms, President of the Society for Counter-Ordnance Technology

HOW TO CONTACT MINWARA

Please send all correspondence to:

The Mine Warfare Association
c/o Larry Kelly, CAPT, USN (Ret), Secretary-Treasurer
6436 Randall Dr., Hughesville MD, 20637
Tel. 301-932-8954
E-mail: lakelly@rayva.org

See our home page at: www.minwara.org

MINE LINES

C/O DMC MANAGEMENT
824 Munras Avenue, Suite C
Monterey, CA 93940

First-Class Mail
U.S. Postage Paid
Monterey, CA
Permit NO. 244

CORPORATE MEMBERS

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Coastal Systems Station

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