

Mega Rust 2021 - East Coast: Naval Corrosion Conference

Hampton, Virginia, USA
21 – 23 September 2021

ISBN: 978-1-7138-4377-1

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2021) by American Society of Naval Engineers
All rights reserved.

Printed with permission by Curran Associates, Inc. (2022)

For permission requests, please contact American Society of Naval Engineers
at the address below.

American Society of Naval Engineers
1452 Duke Street
Alexandria, Virginia 22314
USA

Phone: (703) 836-6727
Fax: (703) 836-7491

asnehq@navalengineers.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

ACTIVE GUIDED WAVE ULTRASOUND INSPECTION (GWUI) TECHNOLOGY.....	1
<i>G. Baumeier, S. Ziola</i>	
DECK PLATE CORROSION ASSESSMENT REDEFINED WITH PEC.....	9
<i>G. Cyr</i>	
EFFECT OF SURFACE TOPOGRAPHY ON CATHODIC DELAMINATION AND CORROSION CREEP.....	24
<i>R. Draper, M. Beamish</i>	
SHIPBOARD CORROSION ASSESSMENT. IDENTIFY. DOCUMENT. DISSEMINATE.....	36
<i>E. Faircloth</i>	
DURABLE COATINGS FOR PREVENTION AND EASY REMOVAL OF UNDESIRABLE STAINS ON SHIP STRUCTURES	47
<i>F. Farelas, R. Martin, B. Koene, A. Goff</i>	
CURE-ON-DEMAND NON-SKID COATING: IMPACT TESTING.....	63
<i>J. Pojman, D. Gary</i>	
SENSITIZED ALUMINUM HULL REPAIR USING REVERSE SENSITIZATION AND PORTABLE FRICTION STIR WELDING.....	73
<i>R. Mason, R. Akans, T. Freidhoff, R. Dunn</i>	
MEGARUST 2021 WATERBORNE FLOAT COAT.....	89
<i>D. Lively, T. Mead</i>	
THE SUCCESSFUL INSTALLATION OF COMPOSITE LOUVERS TO ELIMINATE CORROSION ABOARD USNS T-AKE-14.....	95
<i>J. Ozuna, M. Zirpolo, D. Taylor</i>	
CORROSION BEHAVIOR AND GALVANIC COMPATIBILITY OF SELECTED MATERIALS IN NATURAL SEAWATER.....	101
<i>M. Parker, T. Newbauer, B. Weaver, R. Kogler, L. Erickson, E. Lemieux, D. Horton</i>	
LASER PASSIVATION OF ALUMINUM WEAPON SYSTEM SUBSTRATES	111
<i>A. Monda, P. Cassidy, D. Ranero, A. Witt, D. Rearick</i>	
OPTIMIZED SURFACE PREPARATION OF ALUMINUM SUBSTRATES FOR COATING APPLICATION.....	120
<i>A. Monda, P. Cassidy, D. Ranero, T. Eng</i>	
SUPPORTING YOUR CORROSION PREVENTION CONTROL PLAN WITH COMPLIANT COMPUTATIONAL CORROSION ANALYSIS	132
<i>A. Rose, K. Legg, S. Palani, J. Mendez</i>	
MOBILE, NON-DRIP, BRUSH PLATING AND ANODIZING REPAIRS	165
<i>A. Rose, K. Legg</i>	
NX FOR PAINT & COATINGS.....	186
<i>T. Salerno</i>	

Author Index