

4th Applied Shallow Marine Geophysics Conference 2020

Held at Near Surface Geoscience Conference & Exhibition 2020

Online
7-8 December 2020

ISBN: 978-1-7138-2427-5

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© (2020) by the European Association of Geoscientists & Engineers (EAGE)
All rights reserved.

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

For permission requests, please contact by the European Association of Geoscientists & Engineers (EAGE)
at the address below.

European Association of Geoscientists & Engineers (EAGE)
PO Box 59
3990 DB Houten
The Netherlands

Phone: +31 88 995 5055
Fax: +31 30 634 3524

eage@eage.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

ADVANCED PROCESSING AND CASE STUDIES

Marine Karst Environment Characterization Using Jointly Seismic Imaging, Marine ERT and Geotechnical Data	1
<i>J. Flamme, P. Tarits, A. Lepot, R. Isorna, M. Fabre</i>	
A Comparison of HR2D and 3D Seismic Anomalies by Frequency Dependent AVO Analysis	6
<i>F. Buckley, Ø. Tysse</i>	
Geophysical Mapping of Coastal Landscape During the Last Glacial Cycle, NW Shelf Australia	11
<i>A. Fogg, J. Dix, H. Farr</i>	
Sub-Seafloor Object Detection through Dedicated Diffraction Imaging.....	16
<i>S. Wenau, N. Römer-Stange, H. Keil, V. Spiess, B. Preu</i>	
Assessment of Imaging Approaches for Ultra-High Frequency Seismic Data in the Shallow Subsurface	21
<i>S. Clay, T. Henstock, M. Vardy</i>	

SITE CHARACTERIZATION AND IMAGING

Characterization of Shallow Gas in Coastal Environment Using Jointly Marine ERT and UHR Seismic Imaging	26
<i>J. Flamme, P. Tarits, M. Fabre, G. Jouet, A. Ehrhold, A. Lepot, B. Marsset</i>	
Reconstruction of P-Wave Velocity Model through Geostatistical Inversion of Seismic Travel Time for Offshore Site Characterization	31
<i>M. Moradi, Z. Medina-Cetina</i>	
Acoustic Impedance Inversion of High Resolution Marine Seismic Data with Deep Neural Network	36
<i>J. R. Dujardin, G. Sauvin, M. Vanneste</i>	
Interpolation of CPT Data Supported by 3D Seismic Data for Offshore Soil Characterization	41
<i>A. Werpu Oguro, H. Keil, V. Spiess, B. Preu, V. Herwig, S. Wenau</i>	
Using Migrated Dip-Angle Gathers for Boulder Detection in UHR Seismic Reflection Data.....	46
<i>N. Ettrich, V. Tschanne, S. Wenau</i>	

Author Index