



**Coverphoto:** The current Mediterranean refugee crisis is about to escalate. Data received from Greece, Italy, Malta, and Spain charted a staggering 83% increase in refugees and migrants crossing the Mediterranean from January to June – 137,000 compared to 75,000 in the same period last year.

**Photo:** UNHCR

**Inset photos:** Department of Energy; Morpho; Mönch Archive

**WORD FROM THE EDITOR..... 2**

**INTERVIEW**

*Christoph Unger, President of the Federal Office of Civil Protection and Disaster..... 3*

**SITUATION ROOM ..... 5**

- *European Union, African nations must take responsibility*
- *It's not a matter of if, but of when*
- *No terrorist CBRN attack in EU region during 2014 according to Europol*
- *US-Malaysia relations: strategic imperatives over human rights*
- *Virtual control room helps nuclear operators, industry says*
- *Active fault to scuttle Tsuruga plant*
- *Radiological protection of steel mills*
- *Volcanic ash solution approved by Eurostars*

**ANALYTIC INVESTIGATION**

*Trust us? Nuclear industry learns from scientific evidence ..... 11*

**MARITIME SECURITY**

*Ports in a storm: securing maritime assets..... 17*

*Tantalising prospects – customers' mission parameters require new options for airborne maritime security missions..... 21*

*Integration of coastal surveillance sensors..... 25*

**CRITICAL INFRASTRUCTURES**

*Biometrics and identity authenticity: new concepts for protecting critical infrastructure..... 28*

*Quiet responders – remote-controlled survey robots provide detailed look inside hazardous areas..... 31*

**INDUSTRY PROFILING**

*New frontiers – imaging sensors, radars can do the best, says industry..... 34*

**INDUSTRY TALKS**

*Tracerco details new technological innovation how first responders react to radiological threats.... 37*

**REVIEWER ..... 38**

**EVENTS ..... 44**

**VEHICLEPROFILE**

*EMPL Scorpio firefighting arm vehicle ..... 48*

**INDEX OF ADVERTISERS**

*ELP GmbH..... 2nd cover*  
*Flir Systems, Inc ..... 13*  
*Elettronica GmbH..... 4th cover*

**IMPRESSUM**



**Managing Editor:** Stefan Nitschke  
**Publisher:** Volker Schwichtenberg  
 Uta Schwichtenberg

**Mönch Verlagsgesellschaft mbH:**  
 Heilsbachstraße 26, 53123 Bonn, Germany  
 Tel: +49 (0) 228/64 83-0  
 Fax: +49 (0) 228/64 83-109  
 E-Mail: s-si@mpgbonn.de  
 www.mpgbonn.de

**Chief Executive Officer:** Volker Schwichtenberg  
**Director:** Uta Schwichtenberg  
**Deputy Managing Director:** Christa André  
**Cover and Layout:** Daniel Faßbender, www.df-kreativ.de

The views published are not necessarily those of the Publisher and Editor.

© Copyright by  
 Mönch Verlagsgesellschaft mbH, Bonn, Germany  
 Printed in Germany  
 Bonifatius Druckerei  
 Karl-Schurz-Straße 26, 33100 Paderborn

**Subscription**  
 SAFETY & SECURITY INTERNATIONAL is published 6 times a year.  
 This periodical is available by subscription for € 50,- inclusive of surface postal charges, per year. Orders must be accompanied by cheque, payable to Mönch Verlagsgesellschaft mbH. Air mail for € 80,-.  
 Change of address: Please send old mailing label and new address together with name of journal to Mönch Verlagsgesellschaft mbH, Heilsbachstraße 26, 53123 Bonn (Germany) and allow two months for the change to become effective.

**Subscription USA and Canada**  
 SAFETY & SECURITY INTERNATIONAL is published 6 times a year by Mönch Verlagsgesellschaft mbH, Bonn, Germany.  
 The subscription price is US \$75.00 (+ US \$40 Air mail surcharge) per year.  
 Postmaster: Send address changes to:  
 Mönch Verlagsgesellschaft mbH,  
 Heilsbachstraße 26, 53123 Bonn (Germany)  
 Subscribers: Please use same address for orders and payments.

Copyright © 2015 by Mönch Verlagsgesellschaft mbH  
 All editorial content published in this magazine is protected by copyright. All rights, especially those concerning translations are reserved. No part of this magazine may be reproduced, or transmitted, or translated into another language, in any form or by any means, electronic, digital, mechanical, photocopying, recording or otherwise, or be stored in any retrieval system of any nature, without prior written permission of Mönch Verlagsgesellschaft mbH, except as when related to §§53, 54 German UrhG, under which certain circumstances entitles the Publisher to compensation. According to §54 (2) German UrhG, any copy made or used by commercial enterprises, serving commercial purposes, requires financial compensation to be paid to Mönch Verlagsgesellschaft.

For permission requests, write to  
 Mönch Verlagsgesellschaft mbH.  
 (Contact data see above.)