Abstracts of no more than 300 words should be submitted as soon as possible. Abstracts should clearly state the purpose, results and conclusions of the work to be described in the final paper. Final acceptance will be based on the full-length paper, which if accepted for publication must be presented at the conference.

The language of the conference will be English.

For more information visit: www.wessex.ac.uk/susi2016

Location

The largest and most southerly Greek island, Crete has preserved its unspoilt nature, local traditions and ancient monuments and is renowned for its 1100km of Mediterranean coastline. The Minoan culture, Europe's first advanced civilisation, developed on Crete between 2800 and 1000BC, and was later succeeded by Greco-Roman, Byzantine, Venetian and Ottoman influences, leading to a varied and beautiful traditional architecture. The Mediterranean landscape, which is the main draw for many of the island's visitors, encompasses a stunning coastline with excellent beaches, mountainous inland, and many dramatic features including the Samaria Gorge and Lassithi plateau.

Conference Venue

The Aldemar Royal Mare is situated in a beautiful beachfront location, only 23km from Heraklion airport in Crete. The hotel sits in lush grounds, with two large outdoor swimming pools, and is a complex of attractive low-rise buildings only a short distance from the beach. The Royal Mare has ample facilities including an indoor swimming pool, tennis courts and fitness centre, as well as squash courts, sauna and a water sports centre on the waterfront. In addition, there are a range of restaurants serving different cuisines. These include the gourmet ‘Candia’ restaurant which serves traditional Mediterranean cuisine, the ‘Albatros’ restaurant with spectacular sea views, and the ‘Symposio’ restaurant which offers buffets prepared using fresh, local ingredients, and has a delightful outdoor terrace where guests can enjoy their meal.

14th International Conference on Structures under Shock and Impact

24 – 26 May 2016
Crete, Greece

Organised by
Wessex Institute, UK
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The increasing need to protect civilian infrastructure and industrial facilities against unintentional loads arising from accidental impact and explosion events as well as terrorist attack is reflected in the sustained interest in this SUSI meeting over nearly three decades. While advances have been made over this period, nevertheless many challenges remain, such as to develop more effective and efficient blast and impact mitigation approaches than currently exist. The primary focus remains the survivability of physical facilities and the protection of people, as well as reducing economic losses and impact on the environment, with emphasis on innovative protective technologies to support the needs of an economically growing, modern society. The application of this technology ranges from transportation of dangerous or combustible materials to defences against natural hazard threats such as flood, wind, storm, tsunami and earthquake.

Large scale testing is prohibitive and small scale laboratory testing results in scaling uncertainties. Consequently, more advanced numerical simulations for load and structural response calculations is common practice in industry and research. Such calculations can directly be used in design and risk assessment calculations, but also be applied as input to more simplified design tools and design codes. Whether numerical or analytical modelling techniques are employed, experimental validation is vital for there to be acceptance of the approach to be used. The SUSI meeting over the years has fulfilled many objectives, not least to provide a forum for exchange of research ideas and results to promote a better understanding of these critical issues relating to the testing behaviour, modelling and analyses of protective structures against blast and impact loading.

It is the objective of these meetings to bring together scientists and engineers from a wide range of academic disciplines and industrial backgrounds who have an interest in the structural impact response of structures and materials. In this way, the major developments in different areas can be brought to the attention of backgrounds who have an interest in the structural impact response of structures and materials. In this way, the major developments in different areas can be brought to the attention of the entire community.

All papers presented at the SUSI conference since 1989 are archived in the WIT eLibrary (www.witpress.com/elibrary), where they are accessible to the international community.

Benefits of Attending

**Publication of Papers**

Papers presented at SUSI 2016 will be published by WIT Press in a Volume of WIT Transactions. Selected papers will appear in a special issue of the International Journal of Computational Methods and Experimental Measurements (ISSN: 2048-0546 Digital ISSN: 2048-0554). Abstracts and papers will be reviewed by members of the International Scientific Advisory Committee and other experts.

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Papers presented at Wessex Institute conferences are referenced by CrossRef and have appeared in notable reviews and databases. Papers are submitted to various indexing services such as Thomson Reuters Web of Science, Google Scholar, Scopus and ProQuest. All conference books are listed in the British Library and American Library of Congress.

**Conference Proceedings**

Delegates will receive a copy of the papers presented at the Conference on a USB Flash drive. The USB will, in addition, contain papers from previous conferences in this series. Following the Conference, authors will receive an electronic copy of the publication in which their paper has been published.

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Participants can present their research and interact with experts from around the world, becoming part of a unique community.

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The Wessex Institute believes in the importance of encouraging PhD students to present and publish innovative research at their conferences. As a result, the Institute offers PhD students a much reduced conference fee.

### Conference Topics

- Impact and blast loading
- Energy absorbing issues
- Computational and experimental results
- Aeronautical and aerospace applications
- Response of reinforce concrete under impact
- Response of building to blast
- Seismic behaviour
- Protection of existing structures
- Industrial accidents and explosions
- Hazard mitigation and assessment
- Security issues
- Dynamic analysis of composite structures
- Design against failure
- Damage limitation
- Dynamics of nano materials
- Vehicle impact
- Projectile impact
- Ballistics analysis
- Structural resilience
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