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Important Dates

Abstract due: 15 January 2019

Notification: 31 January 2019

Paper due: 15 March 2019

Early registration: 31 March 2019

Final submission: 15 May 2019

Abstract

Abstracts (1 page, 1.5-spaced) are invited in e-form (as a docx file) before **15 January 2019**, to be submitted at <http://moamrg.co.uk/ICS3M2019>. They should contain the title of the presentation, full names and addresses of the authors, objectives of the study, employed methods, and the most significant results. Copies of abstracts of all the accepted papers will be available in booklet form on the first day of the Conference.

Sponsored by



Secretariat

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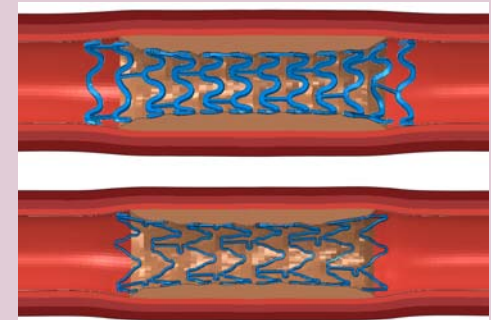
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International Conference on Stents: Materials, Mechanics and Manufacturing **ICS3M 2019**

First Announcement



<http://moamrg.co.uk/ICS3M2019>

London, UK

15-17 July 2019

Aim and Scope

The International Conference on Stents is organised by Technical Committee 14 “Integrity of Biomedical and Biological Materials” of the European Structural Integrity Society (ESIS).”

The aim of this Conference is to bring together specialists in biomedical engineering, biomechanics, materials science, experimental mechanics, modelling and various aspects of processing and manufacturing as well as medical practitioners to discuss advances in stent technologies.

The topics of the Conference include, but are not limited to, the following:

- Metallic and polymeric materials for stents;
- Mechanical properties of stents;
- Development of biodegradable stents;
- Modelling and simulations of stent deformation;
- Stent design;
- Stent manufacturing;
- Stent failure and fracture;
- *In-vitro* and *in-vivo* studies;
- Biocompatibility of stents;
- Stent-vessel interaction;
- Fluid-solid interaction;
- In-stent restenosis;
- Biological and clinical issues related to stents;
- Stent deployment and delivery;
- Medical-imaging-based assessment.



Special Session “Design, Manufacturing and Evaluation of Shape-Memory-Alloy Stents”

The session will cover a range of specific topics directly related to the EPSRC project: “Smart Peripheral Stents for the Lower Extremity - Design, Manufacturing and Evaluation”

Its topics include, but are not limited to:

- Lesion-specific design;
- Additive manufacturing;
- Biomechanical testing;
- Modelling of self-expansion;
- Biocompatibility study;
- *In-vitro* study of haemodynamics ;
- *In-vivo* evaluation;
- Modelling of deployment;
- Microscopic characterization;
- Deformations due to severe twisting and bending.

Venue

The Conference will be held at Loughborough University London. Its campus is located inside Here East, an inspiring innovation hub on the Queen Elizabeth Olympic Park. The campus can be easily reached by underground and bus.

London provides many flights to destinations worldwide, with all its airports linked to a vast network of public transport.

Additional information on the location can be found on the web page <http://www.lborolondon.ac.uk/about/location/find-us/>

Publications

The peer-reviewed papers presented at this Conference will be published in a Special Issue of the Open Access *Procedia Structural Integrity*, published by the Elsevier.

Registration Fee

All participants of the Conference are required to register and to pay the registration fee. The details of the registration and payment will be included into our Second Announcement .

Early Registration Fee (paid before 30 April 2019):

| | |
|------------------------------|-------------------|
| Regular participants: | GBP 460.00 |
| ESIS members: | GBP 430.00 |
| Students: | GBP 230.00 |
| Accompanying persons: | GBP 120.00 |

The Registration Fee covers admission to sessions, coffee breaks, lunches, social programme (Student Fee does not cover the Conference Dinner) and preprints of the abstracts.

<http://moamrg.co.uk/ICS3M2019/registration>

Secretariat

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