

# IRC2019

## Innovations in Elastomeric Materials & Products

10–12 September 2019  
Kia Oval, London, UK

[www.irc2019.org](http://www.irc2019.org)

#irc2019



International Rubber  
Conference Organisation

*Organised by IOM3 Communications*

# CALL FOR PAPERS

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# IRC2019

will present a full and varied technical programme of original papers reflecting current research and development within the rubber industry.

To submit a paper and view submission guidelines go to [www.irc2019.org](http://www.irc2019.org) and follow the call for papers link

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**Deadline for the submission of abstracts**  
1 March 2019

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**Deadline for early bird registration**  
30 June 2019

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**Attendee registration will open**  
1 January 2019

Questions regarding IRC2019 or the submission of papers please contact **Chiara Brooks, Events Organiser**

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Sponsorship & exhibition opportunities please contact

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The IRC2019 technical committee welcomes the submission of paper abstracts that discuss innovations in elastomers related to:

#### **Applications from a wide range of sectors including:**

- Tyre
- On road and off road vehicles including the novel challenges of electrical drive systems
- Aerospace, rail, marine and defence
- Mining, mineral extraction, oil and gas
- Biomedical and healthcare
- Agriculture
- Sport, leisure and consumer products
- Energy generation including nuclear
- Other novel emerging applications

#### **Material developments including:**

- Polymers with a focus on novel or speciality elastomers, elastomers for extreme conditions, thermoplastic elastomers, functionalised elastomers, self-healing elastomers and elastomer foams and gels
- Fillers and additives including nanoscale or functionalised fillers

#### **Material processing including:**

- Additive manufacture
- Cure chemistry and kinetics

#### **Sustainability including:**

- Bio-derived materials and materials recycling
- REACH and health and safety

#### **Modelling including:**

- Constitutive modelling of the materials and product design
- Process modelling and optimisation
- Systems design

#### **Characterisation and testing of materials and products including:**

- Thermal and viscoelastic behaviour
- Failure mechanisms including ageing, fatigue and chemical degradation
- Lifetime prediction

#### **Smart materials including:**

- Sensing and actuation
- Electro active polymers
- Soft robotics
- Intelligent traceability in products