



**7<sup>th</sup> International Conference on Innovative  
Natural Fibre Composites for Industrial  
Applications  
(NFC 2020)**

**First Call for Papers  
Rome - June 3 - 5, 2020  
Sapienza, University of Rome**



Faculty of Civil and Industrial Engineering  
Dept. of Mechanical and Aerospace Engineering  
Dept. of Chemical Engineering Materials Environment

**General chair:**

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**General co-chairs:**

Prof. Claudio Scarponi  
Prof. Fabrizio Sarasini  
Prof. Jacopo Tirillò  
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**CONFERENCE AIMS**

Sustainable development towards circular economy is increasingly becoming a priority of governments and companies, driven by growing environmental awareness. Academic research and industrial development is exploring new ways to create greener and environmentally friendlier materials for a variety of applications in a number of sectors, including aeronautics, automotive, and construction industry.

NFC2020, the “7th International Conference on Innovative Natural Fibre Composites for Industrial Applications”, following the success of the previous conferences held in Rome in October 2007, April 2009, October 2011, October 2013, October 2015 and October 2017, is a good opportunity to discuss investigation of alternative natural fibres, interface, compatibility, bio-resins, toughness, impact, nanomaterials, etc.

NFC2020 aims making a concrete contribution to our society, from the scientific community working on novel applications of natural fibres and in the development of new “green composites” and renewable nanomaterials. The most recent trends of research in this field are aimed at exploiting the principal advantages of natural fibre reinforcements, such as lightweight, worldwide availability, ease of recycling, sustainability, renewability, thermal and acoustic insulation, reduced manufacturing energy and carbon dioxide neutrality, which are nowadays more easily quantified using Life Cycle Analysis (LCA) methodology.

NFC2020 will provide a forum for discussions involving composite users, leading suppliers, engineers, producers, environmentalists, designers, researchers and technicians from industry and universities to share their experience, to present their latest results, discuss advantages and drawbacks of the use of natural fibres, analyse the state of the art and future applications. Another objective will be supplying common ground for future collaborations e.g., in European projects.

**CONFERENCE TOPICS** (include but not limited to):

Novel fibres extraction, processing and treatments  
Fibre-matrix adhesion and interfacial strength characterization  
Novel processing technologies  
Natural fibre reinforced biopolymers  
Agricultural waste materials as fillers for composites  
Functional natural fibres  
Natural fibre modification techniques  
Life cycle assessment (LCA) studies  
Hybrid composites including natural fibres and conventional fibres  
Durability and ageing of natural fibres and their composites  
Nanodimensional natural fibres  
Fire behaviour  
Natural fibre based cementitious composites  
Modelling and prediction of behaviour of natural fibres and NFCs  
Design with natural fibre composites and their applications in high-end sectors

**SCIENTIFIC COMMITTEE**

**Akil Md. H** - UTM (MY)  
**Bismarck A.** - Vienna Univ. of Technology (A)

**Burgstaller C.** - TCKT (A)  
**Dhakai H.N.** – University of Portsmouth (UK)  
**Di Landro L.** – Politecnico di Milano (I)  
**Esposito A.** - Université de Rouen (F)  
**Gaudenzi P.** – Sapienza - Università di Roma (I)  
**Graupner N.** - Hochschule Bremen (D)  
**Holt G.A.** - USDA-ARS (USA)  
**Kozłowski R.**- INF&MP Poznan (PL)  
**Kuciel S.**- Krakow University (PL)  
**Russo P.** – IPCB-CNR (I)  
**Santulli C.** – Università di Camerino (I)  
**Sarasini F.** - Sapienza - Università di Roma (I)  
**Savastano J. H.** – Universisade de Sao Paulo (Br)  
**Skrifvars M.** - University College of Boras (S)  
**Tirillò J.** - Sapienza - Università di Roma (I)  
**Valente M.** - Sapienza - Università di Roma (I)

#### LOCAL ORGANIZING COMMITTEE

Giuliano Coppotelli - Sapienza - Università di Roma  
 Claudio Scarponi - Sapienza - Università di Roma  
 Fabrizio Sarasini - Sapienza - Università di Roma  
 Jacopo Tirillò - Sapienza - Università di Roma  
 Francesca Sbardella - Sapienza - Università di Roma  
 Claudia Sergi - Sapienza - Università di Roma

#### CONFERENCE SECRETARIAT

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 Via Eudossiana 18 – 00184 Rome (Italy)  
 Francesca Sbardella  
 Claudia Sergi

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#### CONFERENCE PROCEEDINGS

The abstracts will be submitted in the form of a two-page extended abstract, including basic figures and references. An extended abstract will include title, author's name and affiliation, address, phone number, fax number and e-mail. Manuscripts submitted for consideration for the Conference will be reviewed by at least two referees. Only original, unpublished work will be accepted. Abstracts should be prepared using the template available at the website. At least one of the authors should register and attend the conference to have the paper included in the scientific program. All accepted papers will be available to delegates of the conference during the event.

Selected papers will be published on the Journal of Natural Fibres.

#### KEY CONFERENCE DATES

- Abstract submission deadline: 29<sup>th</sup> February 2020
- Notification of acceptance: 20<sup>th</sup> March 2020
- Conference: 3<sup>rd</sup> – 5<sup>th</sup> June 2020

#### CONFERENCE LANGUAGE

The official conference language is English.

#### REGISTRATION FEES (in Euros)

The registration fee includes the conference folder with all relevant material, the conference proceedings, access to the conference sessions,

coffee breaks, lunches, welcome reception and conference dinner.

#### Early bird registration (before 15<sup>th</sup> April 2020)

* Regular	600
* Students	250
* Accompanying guest	100

#### Late registration (after 15<sup>th</sup> April 2020)

* Regular	750
* Students	400
* Accompanying guest	100

#### Onsite registration

* Regular	900
* Students	500
* Accompanying guest	100

#### CONFERENCE VENUE

The conference will be held at the ancient building of the Faculty of Engineering of Sapienza - University of Rome, located in Via Eudossiana 18, Rome, Italy, in the historic centre of the city, directly overlooking the Colosseum. The site is at less than 20 minute-walk from Roma-Termini main rail station and a few minutes walk from the metro stations of “Cavour” and “Colosseo” (Blue line B).

#### SOCIAL PROGRAM

A welcome reception is planned on 3<sup>rd</sup> June and the conference dinner on 4<sup>th</sup> June (20.00 - 23.00).

#### CONFERENCE WEBSITE

[www.nfc2020.org](http://www.nfc2020.org)