



7th 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

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General co-chairs:

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Prof. Fabrizio Sarasini
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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

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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

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 Fabrizio Sarasini - Sapienza - Università di Roma
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CONFERENCE SECRETARIAT

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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: 29th February 2020
- Notification of acceptance: 20th March 2020
- Conference: 3rd – 5th 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 15th April 2020)

* Regular	600
* Students	250
* Accompanying guest	100

Late registration (after 15th April 2020)

* Regular	750
* Students	400
* Accompanying guest	100

Onsite registration

* Regular	900
* Students	0
* 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 3rd June and the conference dinner on 4th June (20.00 - 23.00).

CONFERENCE WEBSITE

www.nfc2020.org

