



**6th International Conference on
Innovative Natural Fibre Composites
for Industrial Applications
LAST Call for Papers
Rome - October 4 - 7, 2017
Sapienza Università di Roma**



Faculty of Civil and Industrial Engineering
Dept. of Mechanical & Aerospace Engineering
Dept. of Chemical & Materials Engineering
AIDAA (It. Assoc. of Aeronautics and Astronautics)-Rome

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CONFERENCE AIMS AND SCOPE

Sustainable development is increasingly becoming a priority of governments and companies, driven by growing environmental awareness. Academic research and industrial development is broadly 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. The "6th International Conference on Innovative Natural Fibre Composites for Industrial Applications", planned for October 2017, following the success of the five previous conferences held in Rome in October 2007, April 2009, October 2011, October 2013 and October 2015, is a good opportunity to investigate the items raised during the round table discussion which ended the last edition (interface, compatibility, bio-resins, toughness, impact, nanomaterials, etc.). The 6th Conference 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, lower manufacturing energy and carbon dioxide neutrality. These advantages of natural fibre composites are now more easily quantified through the use of Life Cycle Analysis methodology.

This Conference 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 the advantages and disadvantages of the use of natural fibres, analyze 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):

- Trade-off between sustainability and performance of natural fibre composites
- Fibres extraction, production and treatment
- Fibre-matrix adhesion and interface strength measurement
- Novel processing technologies
- Vegetable waste materials as fillers for composites
- Use of renewable (starch-based, vegetable oil-based, etc.) matrices
- Renewable nanomaterials
- Life cycle assessment (LCA) studies
- Case studies
- Hybrid composites including natural fibres and conventional fibres
- Durability and ageing
- Fire and smoke behaviour
- Automotive applications
- Aeronautical applications
- Nautical applications
- Natural fibre composites in the construction industry
- Design with natural fibre composites

SCIENTIFIC COMMITTEE

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Vazquez A. - University of Mar del Plata (RA)
Zakaria S. - Universiti Kebangsaan (Malaysia)

Local Organizing Committee:

Claudio Scarponi (Univ. "Sapienza");
Teodoro Valente (Univ. "Sapienza");
Marco Valente (Univ. "Sapienza");
Fabrizio Sarasini (Univ. "Sapienza").

Conference Secretariat:

Ing. Eugenio De Santis
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Conference Proceedings

The papers will be submitted in the form of a 4 pages 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 Proceedings with its ISBN 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 and submitted electronically as e-mail attachments to nfcrome2017@gmail.com. At least one of the authors should register and take part at the conference to make the presentation.

Authors of selected papers will be invited to extend their papers for publication in Composites Part B: Engineering (<http://www.journals.elsevier.com/composites-part-b-engineering>) following the journal's review process.

KEY CONFERENCE DATES

- Receipt of extended abstracts: July 30, 2017;
- Notification of acceptance: August 31, 2017;
- Final Program: October 1, 2017.

CONFERENCE LANGUAGE

The official conference language is English.

REGISTRATION FEES (in Euros)

The registration fee includes the Conference Folder with all relevant material, pen drive with the Conference Proceedings, Welcome Cocktail (October 4, 18.00-20.00 h), coffee break (October 5 and 6), lunch (October 5 and 6), Gala Dinner (October 6), Guided Visit Colosseum and Roman ruins, October 7, 9.30-12.00 h, Round Table 12.30-13.30 h.

Welcome Cocktail and Round Table will give the opportunity to evaluate the proposal of Prof. Raul Fanguero concerning the creation of the Association of World Experts in Natural Fibres.

Early registration (before September 10, 2017):

* Participants 450

* AIDAA Members 400
* PhD Students, Doc and post-doc 250
* Accompanying persons 150
Late (after September 15, 2017) and onsite registration:

* Participants 500
* AIDAA Members 450
* Students 250
* Accompanying persons 150

In case of cancellation, the fees will be refunded only if the authors notify the organizers before September 20, 2017. No credit cards payment is available; please, use bank transfer (check on the website the data for a correct money transfer). Please, any attendant should request to their bank to transfer the selected amount of money to the Conference Bank Account; local bank money transfer fee is not included.

VENUE

The Conference will be held at the Faculty of Civil and Industrial Engineering of Sapienza, University of Rome, via Eudossiana 18.

The Faculty is located downtown, close to the Colosseum, in the former monastery of the church of San Pietro in Vincoli, where is located the Michelangelo's Moses.

Termini Railway Station is only ten minutes walk from the Conference Site and it is connected to the Fiumicino International Airport by a direct train (departures any 20 minutes, travel time 35 minutes). There is also a bus to Termini Railway Station.

Many hotels of different levels are located very near to the conference site.

Special fares are available at the Roma Delta Colosseum Hotel at Via Labicana.

GALA DINNER

The Gala Dinner will be planned on Oct. 6, 20-23 h.

Registration will start Oct. 4, 18.00 at the Conference site.

Conference WEBSITE: www.nfcrome.org

Please, check the Registration Form, the Bank data and instructions for authors on the website.