



**SAPIENZA**  
UNIVERSITÀ DI ROMA



**AIDAA**  
ASSOCIAZIONE ITALIANA DI AERONAUTICA E AEROSPAZIO

Sezione di Roma

**M.C.H.**

Ricerca e Sviluppo  
Soluzioni Informatiche e Networking

## **3<sup>rd</sup> International Conference on Innovative Natural Fibre Composites for Industrial Applications**

**2<sup>nd</sup> Call for Papers**  
**Rome - October 12 - 14, 2011**  
*Organized by*



### **Sapienza, University of Rome**

Faculty of Engineering  
Dept. of Mechanical & Aerospace Engineering  
Dept. of Chemical & Materials Engineering  
Ecoengineering Associazione Culturale  
AIDAA (Italian Association of Aeronautics and Astronautics)-Rome  
Alenia Aeronautica  
Assocanapa

*Chairman: Prof. Claudio Scarponi, Dept. of Mechanical & Aerospace Engineering, tel. 0039-06-44585313, fax 44585670*

[claudio.scarponi@uniroma1.it](mailto:claudio.scarponi@uniroma1.it)



### **CONFERENCE AIMS AND SCOPE**

Sustainable development is increasingly becoming a priority of governments and businesses, which is 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 “3<sup>rd</sup> International Conference on Innovative Natural Fibre Composites for Industrial Applications”, planned for October 2011, following the success of the two previous conferences held in Rome in October 2007 and April 2009, is a good opportunity to investigate the items raised during the round table discussion which ended the last edition (interface, compatibility, bio-resins, toughness, nanomaterials, etc.). The 3<sup>rd</sup> Conference aims to make 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 aim 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, 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**

- Sustainability of natural fibre composites
- Innovative use and application of natural fibre composites
- Natural fibre extraction, production and treatment (chemical or enzymatic)
- Fibre-matrix adhesion/Interface issues in natural fibre composites
- Novel composites processing technologies
- Performance of natural fibre composites
- Novel renewable matrices
- Renewable nanomaterials
- Quality control of natural fibre composites
- Life cycle assessment (LCA) studies
- Case studies
- Potential industrial applications

## Scientific Committee

**Barboni R.** - University of Rome "la Sapienza" (I)  
**Bismarck A.** - Imperial College of London (UK)  
**Burgstaller C.** - Transfercenter für Kunststofftechnik (A)  
**Caneva C.** - University of Rome "la Sapienza" (I)  
**Chand N.** - Regional Research Laboratory of Bhopal (IND)  
**Di Landro L.** - Polytechnic of Milan (I)  
**Gaudenzi P.** - University of Rome "la Sapienza" (I)  
**Giraud F.** - Assocanapa (I)  
**Holt G.A.** - USDA-ARS (USA)  
**Marchetti M.** - University of Rome "la Sapienza" (I)  
**Mubarak A.K.** - Radiation and Polymer Chemistry Laboratory (BD)  
**Peroni I.** - University of Rome "la Sapienza" (I)  
**Santulli C.** - University of Rome "la Sapienza" (I)  
**Scarponi C.** - University of Rome "la Sapienza" (I)  
**Schöpfer C.** - University of Göttingen (D)  
**Shaikh A. A.** - National Institute of Technology of Surat (IND)  
**Singh B.** - Central Building Research Institute (IND)  
**Skrifvars M.** - University College of Borås (S)  
**Song J. H.** - Brunel University of Uxbridge (UK)  
**Suddell B.C.** - University of Wales (UK)  
**Valente M.** - University of Rome "la Sapienza" (I)  
**Vazquez A.** - University of Mar del Plata (RA)  
**Voto C.** - Alenia Aeronautica (I)

## Local Organizing Committee:

Claudio Scarponi (Univ. "La Sapienza");  
Claudio Caneva (Univ. "La Sapienza");  
Mario Marchetti (Univ. "La Sapienza");  
Isidoro Peroni (Univ. "La Sapienza");  
Marco Valente (Univ. "La Sapienza");  
Claudio Voto (Alenia Aeronautica);  
Felice Giraud (Pres. Assocanapa).

## Conference Secretariat (Ecoengineering-Associazione Culturale):

Ing. Corrado Sebastiano Pizzinelli (cs.pizzinelli@libero.it)  
Ing. Sara Iacobellis (sara.iacobellis@gmail.com)  
Ing. Carlo Capozzi (carlocazzozzi@gmail.com)

## Conference Proceedings/Special Journal Issue

Papers for inclusion into a Special Issue of the *Journal of Biobased Materials and Bioenergy* (Guest Editors:

Claudio Scarponi and Alexander Bismarck) will be selected on the basis of an extended Abstract, including basic figures and references. A complete abstract should include title, author's name and affiliation, address, phone number, fax number and e-mail. Manuscripts submitted for consideration for the Special Issue will be reviewed by at least two referees. For the format of the final papers, please consult the Journal website: <http://www.aspbs.com/jbmb.html>. Only original, unpublished work will be accepted.

Both abstracts and final papers must be submitted electronically, either as e-mail attachments ([claudio.scarponi@uniroma1.it](mailto:claudio.scarponi@uniroma1.it)) or to the Secretariat members. A copy of the Journal will be sent to the Authors after the Conference.

Only the papers presented at the Conference will be included in the Special Issue.

Oral presentations under Scientific Committee approval can be considered.

## KEY CONFERENCE DATES

- Receipt of Abstracts: April 15, 2011;
- Notification to Authors: April 30, 2011;
- Receipt of Full Papers/Posters: June 10, 2011;
- Referees Comments: July 20, 2011;
- Receipt of Final Papers: September 15, 2011;
- Final Program: September 25, 2011.

## CONFERENCE LANGUAGE

The official conference language is English.

## REGISTRATION FEES (in Euros)

The registration fee includes the Conference Folder with all relevant material, the volume of the Special Issue, participation to the Welcome Reception (October 12), coffee break (October 13 and 14), lunch (October 13 and 14) and Gala Dinner (October 13).

Early registration (before September 1, 2011):

|                        |     |
|------------------------|-----|
| * Participants         | 450 |
| * AIDAA Members        | 400 |
| * Students             | 150 |
| * Accompanying persons | 90  |

Late (after September 1, 2011) and on site registration:

|                 |     |
|-----------------|-----|
| * Participants  | 500 |
| * AIDAA Members | 450 |

|                        |     |
|------------------------|-----|
| * Students             | 150 |
| * Accompanying persons | 120 |

In case of cancellation, the fees will be refunded only if the authors notify the organizers before September 15, 2011.

The fee can be paid only by bank transfer (see the website) or cash at the registration desk.

## VENUE

The Conference will be held at the Faculty of Engineering of Sapienza, University of Rome. The Faculty is located downtown, close to the Colosseum, in the old monastery of the church of San Pietro in Vincoli, where is located the Michelangelo's Moses.

The Termini Railway Station is only ten minutes walk and one Metro B stop (Cavour) from the Conference Site and it is connected to the Fiumicino International Airport by a direct train (departures any 20 minutes, travel time 20 minutes). Check only official taxi at special fare from Fiumicino Airport to Rome Downtown.

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

Special fares are available at the Roma Delta Colosseum Hotel\*\*\*\* at Via Labicana, 100 m from Conference site (see the website).

## SOCIAL PROGRAM

The Social Program will include a Welcome Reception October 12, h. 18.00-20.00, and the Gala Dinner, October 13, h. 20.00-23.00.

Preregistration: October 12, 18.00-20.00.

## WEBSITE

In preparation