

17th International Conference

NOCMAT 2017

Non-conventional Materials and Technologies

"Construction for Sustainability.
Green Composites, Materials
and Technologies"

November 26th - 29th
MÉRIDA, YUCATÁN, MÉXICO

www.cicy.mx

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Host institution
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"Construction for Sustainability,
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Submission of abstracts:

March 31st, 2017

Acceptance of abstracts:

April 28th, 2017

Submission of papers:

August 4th, 2017

Acceptance of papers (including revisions):

September 8th, 2017



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Introduction

We live in a complex, troubled, difficult and a rapidly changing world. All the present indications are that the 21st century will be the most challenging in almost all aspects of human life on this planet and to humanity as a whole. A most pressing and urgent need facing all the peoples of the world is the regeneration and rehabilitation of our infrastructure such as affordable housing, water, energy, transport and sanitation systems. A durable, efficient and effective infrastructure system is fundamental to economic prosperity, social justice, political stability and quality of life. Civil engineering infrastructure is the most costly to create, develop and maintain. The NOCMAT Conferences have shown that we can develop low energy cement technologies, new material systems, and innovative material/structural technologies such as bamboo, palms and different local vegetable fibers, leading to a wide range of cost-effective, durable, environment-friendly, energy efficient and sustainable construction materials that will save energy resources and reduce environmental pollution. The strategy of Non-Conventional Materials and Technologies (NOCMAT) in construction will also go a long way in aiming at eradication of poverty and hunger, ensuring environmental sustainability and the development of global partnership for economic progress and social stability.

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Non-conventional materials and technologies encapsulate innovation and sustainable use of novel technologies and new uses of established materials. Many non-conventional materials in the 21st century have their roots in traditional vernacular construction, including Kah-gel which is earth (*unfired clay*), lime and different natural plants based materials, such as bamboo, straw, palm trees and reeds. For traditional materials and techniques to meet modern demands of construction, cost and performance are required further development and innovative solutions. Materials of the industrial age, including steel and concrete, must also deliver more sustainable solutions. Innovations include cleaner manufacturing processes, lower carbon materials, greater reuse of components on end-use, greater recycling of materials, reduced waste and more production of components using local labour force and materials.



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The 17th IC-NOCMAT Mérida/Yucatán-México follows previous events in **Winnipeg/Canada** (2015), **São Paulo/Brazil** (2014), **João Pessoa/Paraíba-Brazil** (2013), **Hunan/China** (2011), **Cairo/Egypt** (2010), **Bath/England** (2009), **Hanoi/Vietnam** (2002), **Bhubaneswar/India** (1997) and the first one was held in **Rio de Janeiro/Brazil** (1984). The IC-NOCMAT conferences have also been held in Brazil: **João Pessoa** (2003), **Pirassununga** (2004), **Rio de Janeiro** (2005), **Salvador** (2006) and **Maceió** (2007) and **Cali/Colombia** (2008).

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Objectives

The 17th IC-NOCMAT 2017 will provide an international forum for information dissemination and exchange, discussions and debates on research and practice in a range of sustainable and innovative construction materials and technologies. The conference is expected to attract a wide range of academics, scientists, researchers, students, builders, designers, NGO field-workers, specifiers and other industrialists from a wide variety of backgrounds, including fields of architecture, engineering, materials, sustainable and ecological technologies, biomaterials, materials sciences, and environmental engineering. The conference should also be of interest to specialists in geography, economy, management and accounting of natural resources.





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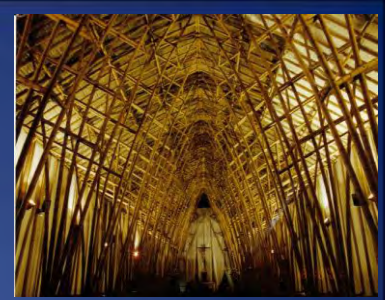
- **Organized by:**
- *International Committee on Non-Conventional Materials and Technologies (IC-NOCMAT)*
- *Centro de Investigación Científica de Yucatán, A.C./México*
- *Associação Brasileira de Ciências dos Materiais e Tecnologias Não-Convencionais (ABMTENC - Rio de Janeiro/Brazil)*
- *Pontifícia Universidade Católica do Rio de Janeiro, PUC-Rio/Brazil*



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International Technical and Scientific Committee

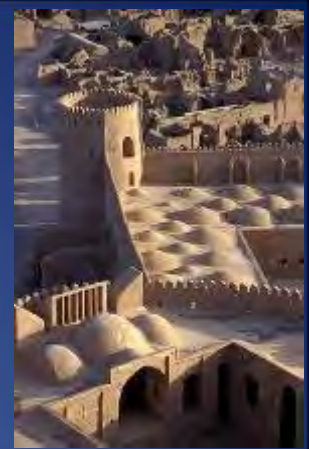
Prof. Khosrow Ghavami (**Brazil**), Prof. Pedro Jesús Herrera Franco (**Mexico**), Prof. Narayan Swamy (**UK**), Dr Kevan Heathcote (**Australia**), Assoc. Prof. Jason Ingham (**New Zealand**), Prof. Kohei Komatsu (**Japan**), Prof. J. Z. Xiao (**China**), Prof. Jean-Claude Morel (**France**), Prof. G. Minke (**Germany**), Prof. Peter Walker (**UK**), Prof. Holmer Savastano Jr. (**Brazil**), Prof. Wolé Soboyejo (**USA**), Prof. B.V. Venkatarama Reddy (**India**), Dr. José Maria Monzo Balbuena (**Spain**), Dr. Jorge Juan Paya Bernabeu (**Spain**), Dr. Ernesto Villar (**Cuba**), Prof. Romildo Dias Toledo Filho (**Brazil**), Prof. Pierre Ohayon (**Brazil**), Prof. Piet Stroeven (**Netherlands**), Dr. Bruce King (**USA**), Prof. Normando Perazzo Barbosa (**Brazil**), Prof. Marcial Blondet (**Peru**), Prof. Mohamad Zaman Kabir (**Iran**), Dr. Conrado de Sousa Rodrigues (**Brazil**), Dr. Kambiz Pourtahmasi (**Iran**), Dr. Kent Harries (**USA**), Prof. Michel Gohnert (**South Africa**), Prof. Lawrence C. Bank (**USA**), Prof. Said Kenai (**Algeria**), Assoc. Prof. Luis Eustáquio Moreira (**Brazil**), Prof. Fabio Matta (**USA**), Prof. Alejandro Manzano Ramirez (**Mexico**), Prof. José Jaime Garcia (**Colombia**), Kris J. Dick (**Canada**), Oliver Frith (**PRC**), Prof. G. Monti (**Italy**), Prof. Yan Xiao (**USA/China**), Prof. Audronis Kazimieras Kvedaras (**Lithuania**).



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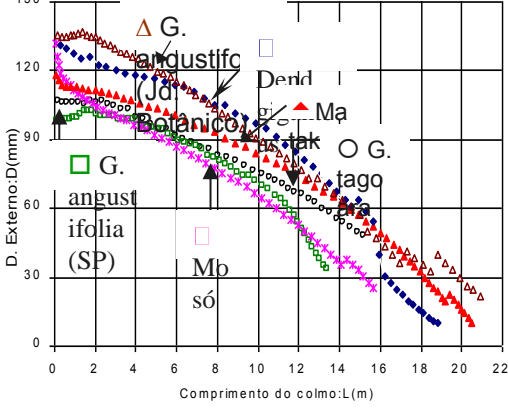
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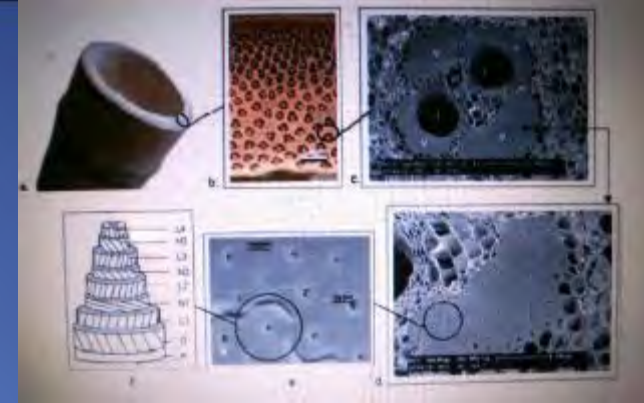


Main Themes

- ❏ *Construction materials and technologies for climate change;*
- ❏ *Construction materials and technologies to deliver affordable housing;*
- ❏ *Innovations in development of low carbon materials and technologies;*
- ❏ *Low cost housing concepts, prototypes and applications;*
- ❏ *Standards and guidelines;*
- ❏ *Life-cycle assessment of materials;*
- ❏ *Environmentally friendly, energy efficient construction;*
- ❏ *Seismic strengthening, flood mitigation and disaster prevention;*
- ❏ *Advances in research methodologies and materials testing;*
- ❏ *Infrastructure systems and materials;*
- ❏ *Durability and performance of construction materials;*
- ❏ *Applications in improving building health through materials and constructional development;*
- ❏ *Recycling of industrial, agricultural and urban waste stream materials.*



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KEY DATES

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Wellcome to 17th NOCMAT 2017

