



汕頭大學

SHANTOU UNIVERSITY

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Shantou, June 26, 2023

## REPORT OF THE SCIENTIFIC MISSION MAY-JUNE 2023

As planned in the Application Form of Official Overseas Travel, I have been abroad during May and June 2023 in order to present to the scientific international community the most recent and advanced research results that I have obtained on the cutting-edge topic “Fracture Mechanics of Next-generation Reinforced Concrete”.

In addition, concerning my scientific mission to Istanbul the role as active Member of the FIB Commission WP2.4.1 “Modelling of Fibre-reinforced Concrete Structures” is fulfilled.

In the following, my detailed scientific commitments during the official travel are listed.

2023.5.15-18

ICDM4 – 4th International Conference on Damage Mechanics, Louisiana State University, Baton Rouge, Louisiana, USA (Organizer: Prof. G. Voyiadjis). Speech n. 1: “Energy dissipation in fibre-reinforced concrete beams under cyclic loading: Scale effects, plastic shake-down, and hysteretic behaviour” by **F. Accornero**, A. Rubino, A. Carpinteri; Speech n. 2 (Plenary Lecture): “Micro-damage instability mechanisms in composite materials: Cracking coalescence vs fibre ductility and slippage” by A. Carpinteri, **F. Accornero**; Speech n. 3: “Fracture mechanics approach to minimum reinforcement design of fibre-reinforced concrete beams” by A. Rubino, **F. Accornero**, A. Carpinteri.



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2023.6.5-7 (**no reimbursement request**)

FIB Symposium 2023 - Building for the Future: Durable, Sustainable, Resilient, Istanbul Technical University, Istanbul, Turkey (Organizer: Prof. Alper Ilki). Speech: "A fracture mechanics approach to the design of fibre-reinforced and hybrid-reinforced concrete beams" by **F. Accornero**, A. Rubino, A. Carpinteri.

In addition, as an effective member, I have participated to the annual meeting of the FIB Commission WP2.4.1 "Modelling of Fibre-reinforced Concrete Structures".

2023.6.11-16 (**no reimbursement request**)

ICF15 – 15th International Conference on Fracture, Georgia Institute of Technology, Atlanta, Georgia, USA (Organizer: Prof. A. Saxena). Speech n. 1: "Scale effects in the post-cracking behaviour of CNT-epoxy composites: Predicting crack jumps and ductile-to-brittle transitions" by **F. Accornero**, A. Rubino, A. Carpinteri; Speech n. 2 (Keynote Lecture): "Gypsum and quartz specimens in compression failure: Fracto-emissions and related stoichiometric balances" by A. Carpinteri, **F. Accornero**.

I am at complete disposition of the relevant offices to provide any further details they may require.

Sincerely

A handwritten signature in black ink, appearing to read 'Federico Accornero'.