

First Call for Papers



2nd International fib Congress

June 5-8, 2006
Naples, Italy



Schedule for Submission of Papers

March 10, 2005 Deadline for reception of abstracts
June 10, 2005 Confirmation of acceptance
November 10, 2005 Deadline for reception of full length papers

300-word abstracts are to be submitted (in English, text only) in MS-WORD or PDF format. Submission type (paper or poster) and topic area are to be indicated. The files should be sent by e-mail to fib2006@unina.it. Detailed guidelines for preparing and submitting abstracts and full length papers may be found on the Symposium web site www.naples2006.com.

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2nd International fib Congress
June 5-8, 2006 - Naples, Italy



Engineers and Researchers from around the world will find at the Naples fib Congress a unique opportunity to share new ideas, experiences and knowledge within the field of concrete structures. Attractive technical programs, exhibitions, excursions and the friendly atmosphere of fib await you in Naples.

Date and Place

The Congress will be held June 5-8, 2006 at the International Congress Center "Mostra d'Oltremare", Naples, Italy

Scientific Program

The scientific program will consist of National Reports, Key-note Lectures and Technical Sessions. National Reports and Key-note Lectures will be presented by invited speakers.

Call for Papers and Posters

Individuals wishing to present a contribution - paper or poster - at the technical sessions are invited to submit an abstract. The abstract should be in English and should not exceed 300 words. Abstracts should be submitted by e-mail, facsimile or post mail, to the congress secretariat no later than March 10, 2005. Abstracts should include:

- designation "Paper" or "Poster"
- the session title to which the paper belongs
- the title, author(s) name, affiliation(s), and corresponding author address and e-mail.

Corresponding authors will be informed of acceptance from the Scientific Committee by June 10, 2005. Additional information will be provided at the time of preparation. The completed paper or poster must be delivered to the Congress Secretariat by November 10, 2005. Papers will be reviewed by the Scientific Committee for final acceptance.

National Reports

Reports or recent state-of-the-arts, projects, products, researches, etc., will be addressed. Speakers are to be invited.

San Francesco di Paola



Maschio Angioino



Papers are expected on the following themes

1. Large projects and innovative structures

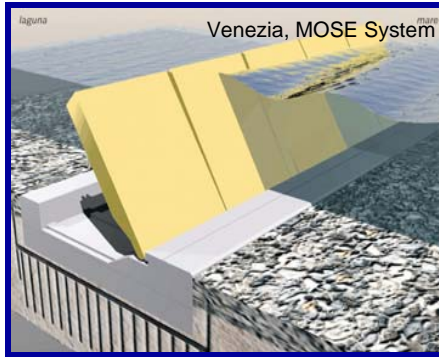
The recent realization of large projects and innovative structures during the last years has pointed out that concrete could reach new frontiers as the main material for construction; both evolution of construction techniques and material properties contributed to such development in reinforced and prestressed concrete structures. Projects that demonstrate innovative use of concrete structures as executed in the field pertain to this topic.

2. Design and construction

The continuous evolution of construction techniques and design procedures highlights their strong interaction; new construction sequences require very often innovative design approaches accounting for execution issues. Papers pointing out the interrelation between design, construction and execution are encouraged.

3. Modelling and design

The evolution of concrete structures requires the development of advanced models able to support the designers in conceiving enhanced structures and in predicting their actual behaviour. The possibility to fruitfully discuss the advancements in structural modelling, like optimization procedures and soft computing techniques, and their influence on design is offered here.



4. Underground and foundation structures

Concrete is the material for underground construction, that is becoming common in congested urban areas, as well as for foundations that require accurate study in large construction. Papers dealing with up to date design processes and construction techniques on either issues are expected.

5. Composite and hybrid structures

The combination of steel structural shapes and concrete is an option for structural designers and building contractors. Papers are expected to cover this issue from a concrete perspective and its innovations.

6. Prefabrication

Prefabrication is considered to enhance construction speed and quality. Pre-cast structures require specific layout from the design phase. Papers concerned with conceptual design, modelling, production techniques and innovative detailing are invited.

7. Plasticity in design of concrete structures

Theory of plasticity is fundamental both in the design and in the behaviour definition of concrete structures; also modern design codes have been largely influenced by plasticity principles. Papers dealing with innovative applications of plasticity to concrete design and verification are expected.

8. Seismic design of new concrete structures

New trends in seismic design of concrete structures, based on performance-based earthquake engineering and limit state philosophy, are becoming available to meet safety and economic needs of owners and society. Papers on these methodologies of design are encouraged.

9. Seismic evaluation of concrete structures

In light of our current knowledge and modern codes, the majority of the building inventory in many parts of the world is substandard and deficient. This is especially so in earthquake-prone regions where seismic design of structures is relatively recent. Papers on methodologies and applications on seismic assessment of existing concrete structures are expected.

10. FRP reinforcement for new and existing structures

Engineered composites have, over the last decade, moved from the R&D phase to field implementation. Hundreds of projects can be listed in the areas of rehabilitation and upgrade of existing concrete structures and few niche markets, such as bridge decks and soft eyes, have opened up for new construction using composite reinforcing bars.

In response to field applications, code-writing authorities are issuing provisional design and construction guide lines. The latest developments in analytical and design tools as well as experimentation and significant field applications are encouraged.



11. Blast protection of concrete structures

The research community and practitioners are being challenged to better understand blast phenomena and devise methods for enhancing the protection of existing and new concrete structures to this type of actions. Papers on the fundamental issues related to blast protection spanning from vulnerability assessment of concrete structures to the economical implications are expected.

12. Response of concrete structures to high temperatures and fire

The structural engineering community feels the need for a critical discussion about the design of structures subjected to high temperatures and fire. Concrete as a material and, consequently, concrete structures may present some advantages over other traditional solutions. Papers addressing this topic from both research and design/detailing perspectives are invited.

13. Concrete

Concrete is a construction material in continuous evolution, not only for the attainment of high and very high strength, but also for the fulfillment of performance criteria required in design. Papers on innovative high performance concrete able to enhance the structural quality and the service life aspects will be welcome.

14. Reinforcing and prestressing materials and systems

Reinforcement and prestressing systems show new developments in techniques and protection. Particular attention should be devoted to the evolution of technologies in the most advanced applications such as external post-tensioning and stay cables. Papers on the most recent innovations are expected.

15. Durability of concrete structures

Service life design is one of the most important advancements in the design of concrete structures. Accounting for safety, functionality and durability at the same level will improve considerably the performance of concrete structures. Contributions on service life design approaches and its interrelation with execution will be welcome.

16. Safety of concrete structures (new construction, assessment)

Recent improvements within the general concept of concrete structures safety (e.g., model uncertainties and their effect evaluation; risk analysis and structural reliability; safety evaluation of existing structures; vulnerability of concrete structures by effect of accidental actions) will be dealt with.

17. Monitoring, residual life evaluation and repair

Structural monitoring represents a desirable approach to strengthening, analysis of residual life, and in situ evaluation of structural conditions. Papers on micro-destructive and non-destructive tests carried out on important structures like highways, bridges, towers and old masterpieces are expected.

18. Sustainability (recycling, life cycle assessment, dismantling and demolition)

The sustainability of concrete structures is strictly related to the preservation of natural resources and to the reduction of pollution generated during the production of concrete constituents; great attention should then be paid to life cycle assessment, recycling, dismantling and demolition. Related technologies and required regulatory management will be welcome.

19. Architectural and environmental design

Environmental design is attaining increasing importance not only for common construction, but also for large infrastructures. In this case the relationship between shape and structure becomes of high relevance. The topic deals with the latest examples of infrastructures that show good results in terms of details and interaction between architecture and structure.

20. Preservation of old concrete masterpieces

Criteria for the selection of existing concrete structures to be preserved are needed in order to address original value and authenticity. Similarly, techniques and means appropriate to restoration and long-term preservation of masterpieces from corrosion and decay are necessary. Papers on both aspects of preservation are expected.

21. Failures

Failures give, even in tragic situations, several detailed information on the real behaviour of the structures. The recent literature shows many examples - induced by seismic events, or by incorrect structural design and maintenance - in which the analysis of the failure and its consequences provide a great deal of information. The evaluation of the type of failure represents today one of the most important way to Design by Testing.



The Second *fib* Congress

ELECTRONIC PRE-ENROLLMENT FORM

Individuals interested in attending the conference are strongly encouraged to use the electronic pre-enrollment form, which can be downloaded from www.naples2006.com

NAME :

(Family name) (First name) (Middle initial)

TITLE : Prof. Dr. Mr. Mrs. Ms.

COMPANY/ORGANIZATION:

E-MAIL:

MAILING ADDRESS:

- I am interested in attending the 2006 *fib* Congress
 I intend to submit the following paper (title):

SYMPOSIUM SECRETARIAT

Polese M., Prota A., Russo S.

***fib* Italia**

Department of Structural Analysis and Design
University of Naples Federico II
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Contacts: fib2006@unina.it
Info: www.naples2006.com



Naples

The second *fib* Congress will take place in Naples, the 3rd largest Italian city. Located 185 km southwest of Rome, Naples is one of the world's most important art towns, with a history dating back to the Greek and Roman era. It is situated between Vesuvius and Phlegrean Fields and stretches along a bay faced by a series of islands, like Capri and Ischia, and peninsulas in the Tyrrhenian Sea. It has a mild and constant climate and is one of the most important trading ports of Italy.

The Venue

fib will host its Second International Congress and Exhibition at the International Congress Center "Mostra d'Oltremare".

The main facilities are: Mediterraneo Theatre (1300 seats), Italia Hall (400 seats), Twin Pavillons (about 4400 seats), parkings and a restaurant.



Social program:

Post-Congress Tour

The Post-Congress tours will include different choices of one-day tours in Naples and surrounding areas. Longer tours (two or three days) will be organized to art and historical sites.



Accompanying Person Program

An accompanying person program will be organized. Tours will visit Naples and surroundings (Pompeii, Capri, Positano and other historical and scenic sites), where one can enjoy Italian traditional arts and culture.



Welcome Reception

All the congress participants and their accompanying person are invited to the Welcome Reception.

Banquet

The banquet is for the participants and their accompanying persons who apply in advance. It requires an additional fee and will include entertainment.

