



**STRUCTURAL  
ENGINEERS  
WORLD CONGRESS  
2011**

**APRIL 4<sup>th</sup> to 6<sup>th</sup>  
Villa Erba  
COMO - ITALY**

Founding associations:  
**ACI - ASCE - IASS  
JSCA - NCSEA - SEAOC**

**THE AIMS OF SEWC 2011**

The Structural Engineers World Congress [SEWC] is an international conference with worldwide participation by structural engineers.

The primary purpose of SEWC2011 is to focus on the overall practice of structural engineering, emphasizing the ethic, technical and theoretical aspects.

The conference will focus on a world-wide exchange of structural engineering experiences, and on the cooperation with the architects, under the common effort towards holistic and sustainable constructions.

The main CSR (Corporate Social Responsibility) aspects for the planning, the design and the construction of ethic structures and infrastructures will be illustrated.

The use of current and new materials, the correct definition of the actions, problems of design and construction, state of the art of research and testing techniques will be also discussed.

**THE ORGANIZING COMMITTEE**

**R. Sundaram:**

President SEWC-WORLDWIDE – Honorary member.

**Gian Carlo Giuliani dr. eng:**

Structural professional engineer in Milano (Italy), Alberta (CAN) and Cyprus - Advisory member IASS - Fellow member ASCE, IABSE - Member ACI, fib, PCI, GLIS, ASSISI - President organizing committee IASS Symposium 1995 in Milano.

**Riccardo De Col dr. eng:**

Structural professional engineer in Milano  
Secretary of ATE (Association of Building Technologists)  
Member ACI, ASCE, AISC, IABSE fib.

**Fabio Capsoni dr. eng:**

Structural consulting engineer in Como

**Enzo Siviero prof. eng:**

Structural professional engineer - Teacher of Theory and Design of Bridges and construction Techniques at IUAV University in Venezia - Vice President of the National Universities Council - Civil Engineering and Architecture area.

**Marco Eugenio Di Giandomenico prof.**

Professor at the Politecnico di Milano in Economics and Business Administration (BEST Department); expert on Corporate Social Responsibility (CSR) for the construction industry, engineering and architecture.

**THE PATRONAGES AND THE SPONSORS**

Patronage to the Congress was given by International Universities and Professional Associations. Sponsors are financially supporting the organization, thus allowing keeping the participation fees at a reasonable level.

**THE SCIENTIFIC COMMITTEE**

Eminent professors and professional engineers, specialized in the Congress themes, and resident in a wide number of Countries, were appointed to evaluate the submitted abstracts, to revise the final papers, and to chair the sessions.

**THE THEMES**

The themes are assigned according to the following table with an explicit recall to a painting by C. Carrà which represents, in an evocative way, the synergy we need for the development of structural engineering.



| MAIN SUBJECTS                       |                                 |
|-------------------------------------|---------------------------------|
| STRUCTURAL AND ARCHITECTURAL DESIGN | STRUCTURAL REHABILITATION       |
| CONSTRUCTION                        | IN LABORATORY AND ON SITE TESTS |
| STATIC AND DYNAMIC ANALYSIS         | NEW STRUCTURAL PROBLEMS         |
| INVERSE ANALYSIS AND DIAGNOSTICS    | RESEARCHES                      |
| MINI SYMPOSIA                       |                                 |
| ACTIONS and ENVIRONMENT             |                                 |
| FIRE                                | CORROSION                       |
| WIND                                | DURABILITY                      |
| EARTHQUAKE                          | SUSTAINABILITY                  |
| ABNORMAL LOADS                      | RESISTANCE                      |
| PROBLEMS AND SOLUTIONS              | GREEN STRUCTURES                |
| MATERIALS and COMPONENTS            |                                 |
| CONCRETE                            | BEARINGS                        |
| STEEL                               | JOINTS                          |
| WOOD                                | ISOLATORS                       |
| ALUMINUM                            | DAMPERS                         |
| GLASS                               | CABLES AND STAYS                |
| COMPOSITES                          |                                 |
| DEVELOPMENT AND USE OF MATERIALS    | DEVELOPMENT AND USE OF DEVICES  |

## THE INVITED LECTURERS

|                      |  |
|----------------------|--|
| J. Martinez Calzón   | Forms, structures and energy   |
| M. A. Chiorino       | Analysis of structural effects of time dependent behaviour of concrete: an internationally harmonized format |
| M.E. Di Giandomenico | What ethics project management for development of sustainable infrastructure?                                |
| M.E. Giuliani        | About structural details   |
| W.B. Kraetzig        | Solar chimneys   |
| G. Maier             | Inverse analysis methods   |
| M. Majowiecki        | Structures in architecture   |
| F. Mola              | Conceptual approach and analysis in the structural design of rc tall buildings                               |
| R. Motro             | Art and structural engineering   |
| P. Samyn             | Rhythms in steel structures  |
| Schlaich J.          | New stadium structures   |
| E. Siviero           | Bridges and architecture   |
| R. Sundaram          | Shell structures   |
| M. Virlogeux         | Bridges in historical sites  |

## PLENARY SESSIONS

TBD The Messina Strait Crossing

## SPECIAL PARALLEL SESSIONS

|                     |  |
|---------------------|--|
| L. Binda            | Assessment and repair of Historic masonry buildings                              |
| M.A. Chiorino       | Time dependent behaviour of concrete: prediction models and methods of analysis. |
| A. Martelli         | Seismic protection techniques  |
| R. Motro            | Actuality of tensegrity  |
| A. Murthy           | Prestressed and Precast Concrete   |
| E. Siviero          | Engineering versus architecture  |
| F. Soetens          | Aluminum structures  |
| TBD                 | Fire engineering for steel and concrete structures                               |
| TBD                 | Wind engineering for high rise buildings   |
| Other ones expected |  |

## CALL FOR PAPERS

The abstracts should be e-mailed up to October 31st, 2010; the acceptance of the abstracts will be confirmed by the Scientific Committee before December 30th, 2010. The authors will be kindly requested to e-mail the final papers before January 31st, 2011 and to pay by this date the reduced participation fee.

## THE LANGUAGE

All oral presentations and all written papers will be in English; no simultaneous translation will be provided.

## WEB SITE

A web site was implemented to provide more details on the Congress, the status of the submitted abstracts and papers, the registration, and so on. Contact [www.sewc-worldwide.org](http://www.sewc-worldwide.org) specifying the SEWC2011 – Italy reference. On the web site, links to the sponsors and exhibitors homepages are also given.

## THE DATE

The Congress will take place from Monday April 4th to Wednesday April 6th 2011.  
An optional cultural and technical tour to Milano could possibly be organized on Thursday April 7th.

## CLIMATE

At the beginning of April the climate in Como is mild but a little bit cold in the evening; occasional rain can be expected.

## THE VENUE

### Villa Erba (Como Cernobbio).

The recently built Villa Erba convention and exhibition facilities are located in a park on the shore of the well renowned Lario Lake. Very nice hotels can be found in the town of Como or in the villages of Cernobbio and Moltrasio. A fortyfive minute walk or a fifteen minute ride on city buses or ferries is necessary to reach Villa Erba from Como center.

The trip from Milano Malpensa intercontinental airport to Como requires a train change in Saronno and an hour time.

Two railway lines, (one regional and one international from Switzerland and Germany) connect Como to Milano in a 45 minute travel time. The exit Como Nord of the A9 highway is convenient for people travelling by car.

## THE PARTICIPATION FEE

The normal participation fee is fixed at € 650 if paid before December 31st 2010, or at € 750 for late payments.

The fee for the members of the Scientific Committee and for the authors is set at 550€. For the Italian participants only all the fees will be charged with 20% VAT.

A reduced fee of 200€ will be applied for students upon the submittal of a specific request from their Teachers.



## THE SERVICES

The participation fee will include:

- Lunches from April 4th to April 6th
- Morning and afternoon coffee breaks
- Welcome cocktail on April 4th
- Farewell dinner on April 6th
- A printed copy of the abstracts
- A CD with the complete presented papers
- Free visit to the exhibition (see below)

No accompanying persons' program is planned.

The delegate's eventual guests will be kindly requested to pay for their lunches, welcome cocktail and farewell dinner.

## HOTEL AND INDIVIDUAL TRIP BOOKING

The hotel booking, via the local MIZAR agency 22012 Cernobbio (CO) - Via 5 Giornate 2/r ITALY Tel. +39 031 342025 Fax. +39 031 342015 - [www.mizarconventions.com](http://www.mizarconventions.com) - will be directly effected by the participants; reduced rates will be applied for the period of the Congress. Travel agencies will support the delegates in planning their one day or longer trips. Tours to Milano city for visiting monuments, art galleries and shopping areas can be easily and directly effected. taking a train for a 45 minute ride. Individual trips to the close-by Italian and Swiss ski areas located in the Alps can be organized. The view of the glaciers and of the snowy mountains from the top stations of the cable cars is really breathtaking and can be enjoyed by everyone.

## PATRONAGING INSTITUTIONS



**With:** AIMETA (Associazione Italiana di Meccanica Teorica ed Applicata) ASSISI (Anti-Seismic Systems International Society) ATE (Associazione Tecnologi Edilizia)

CISM (International centre for mechanical sciences)

Colegio de ingenieros de caminos, canales y puertos

CSCE (Canadian society for civil engineering) - ENEA (Agenzia nazionale nuove tecnologie energia e sviluppo sostenibile) - GLIS (Gruppo Lavoro Isolamento Sismico) - IUAV (Istituto Universitario Architettura Venezia)

Ordine Ingegneri Architetti di Milano - Ordine Ingegneri di Como - Politecnico di Milano - Universidad Politecnica de Madrid - Universidad Politecnica de Valencia - Université

Moitpellier 2 - YLDIZ TEKNIK UNIVERSITESI - The Institution of Structural Engineers - CNI (Consiglio Nazionale Degli Ingegneri).

## SPONSORING COMPANIES



## EXHIBITORS

ALGA - Canobbio - FIP Industriale - HRC Interbau - Mapei - Maurer Söhne