



UNIONE EUROPEA – MIUR – REGIONE SICILIA – PROVINCIA REGIONALE DI SIRACUSA – COMUNE DI SIRACUSA - DIPARTIMENTO DELLA PROTEZIONE CIVILE - GRUPPO NAZIONALE DIFESA DAI TERREMOTI (GNDT) – UNIVERSITA' DI CATANIA -



INNOVATIVE TECHNIQUES OF SEISMIC RETROFITTING

**INTERNATIONAL SEMINAR
SYRACUSE – SICILY
15-17 JULY 2004**



TIMETABLE

First day - July 15, 2004

9.00

Opening

On. Raffaele Gentile, Presidente I.A.C.P. Siracusa

Ing. Vincenzo Guerrieri, Federcasa

Dott. Paolo Burgio, Sindaco di Solarino

Prof. Giuseppe Cozzo, Direttore Dipartimento Ingegneria Civile e Ambientale, Università di Catania

Avv. Giambattista Bufardecì, Sindaco di Siracusa

On. Bruno Marziano, Presidente Provincia Regionale Siracusa

On. Fabio Granata, Assessore Regionale Beni Culturali e Pubblica Istruzione, Regione Sicilia

Ing. Guido Monteforte, Presidente Ordine Ingegneri Siracusa

Ing. Gaetano Fedè, Presidente Consulta Ordini Ingegneri Sicilia

Ing. Luigi Bosco, Presidente Ordine Ingegneri Catania

Prof. Claudio Eva, Direttore del GNDT

Dott. Elvezio Galanti, Direttore Ufficio Servizio Sismico Nazionale del Dipartimento della Protezione Civile

Ing. Tullio Martella, Dirigente Generale, Dipartimento Regionale Protezione Civile

9.30

Technical Session 1

Alessandro Martelli, Responsabile Sezione Prevenzione Rischi Naturali e Mitigazione Effetti, ENEA, Coordinatore GLIS, Presidente ASSISI

Principles and Applications of Modern A-seismic Technologies

10.00

Vincenzo Petrini, Politecnico di Milano

Seismic Hazard Classification : Definition of Design Actions

10.45

Vitelmo V. Bertero, University of California at Berkeley

Performance Based Earthquake Engineering Using Innovative Techniques

Part 1 Design of New Buildings



11.45 Coffee Break

12.00 Vitelmo V. Bertero, University of California at Berkeley

Performance Based Earthquake Engineering Using Innovative Techniques

Part 2 Upgrading of Existing Buildings

13.00 Discussion

13.30 Lunch

15.00 Technical Session 2

Akira Wada, Tokyo Institute of Technology, Yokohama

Seismic Retrofitting of Buildings In Japan

16.00 Luis D. Decanini, Università di Roma "La Sapienza"

R/C Shear Walls in the Seismic Retrofitting of Buildings

16.45 Coffee break

17.00 Federico M Mazzolani, Università di Napoli "Federico II"

Innovative Systems for the Seismic Protection of the Built Environment

17.45 Vincenzo Ciampi, Università di Roma "La Sapienza"

Innovative Techniques for the Seismic Protection of Industrial Facilities

18.30 Renato Sparacio, Università di Napoli "Federico II"

New Techniques and Old Ideas for Seismic Retrofitting

19.15 Discussion

19.45 End of Day 1



Second day - July 16, 2004

9.00 Technical Session 3

Luigi Tortorici, Dipartimento di Scienze Geologiche, Università di Catania

Seismotectonic Characteristics of the Eastern Hyblean Mountains

9.45 Giuseppe Oliveto, Dipartimento di Ingegneria Civile ed Ambientale, Università di Catania

Traditional and Innovative Methods of Seismic Retrofitting: Applications to R/C buildings in Sicily

10:30 Mario Granata, S.A.P. Studio Engineering S.r.l., Catania

Seismic Retrofitting of two R/C Buildings by Base Isolation : Design and Construction Aspects

11:00 Coffee Break

11:15 ENEA , RAI 3 MOLISE, Film projection

History of an Earthquake : 2002 Molise Earthquake

11:45 Giuseppe Oliveto, Dipartimento di Ingegneria Civile ed Ambientale, Università di Catania

Static and Dynamic Tests for on-Site Identification of Mechanical Properties of a Base Isolated R/C Building: Part 1 Theoretical and Design Aspects

12:30 Giuseppe Oliveto, Dipartimento di Ingegneria Civile ed Ambientale, Università di Catania

Static and Dynamic Tests for on-Site Identification of Mechanical Properties of a Base Isolated R/C Building: Part 2 Experimental Results

13:15 Discussion



13.30

Lunch

16:00

Transfer to Solarino

Technical Session 3

17.00

Giuseppe Buda, Piero Sciacca, Dynamic Experimental Test Team, Department of Civil and Environmental Engineering, University of Catania

Sudden Release Test on a Base Isolated R/C Building

19.00

End of Day 2

Third day - July 17, 2004

9.00

Round Table Discussion

Seismic Retrofitting : Present and Future

V.V. Bertero, A. Wada, V. Petrini, L. De Canini, L. Tortorici, F. M. Mazzolani, G. Oliveto, M. Maugeri, A. Martelli, E. Galanti, T. Martella, C. Eva, R. Sparacio, M. Muti, M. Granata, G. Monteforte, G. Fedè, D. Chiarotto, G. Castellano, C. Uccello; On. F. Granata, Avv. G. Bufardecì, On. B. Marziano, Dott. P. Burgio.

12.00

Seminar Closure



ACKNOWLEDGEMENTS

The private and public institutions listed below have contributed in different ways to the realization of this event. The organizing committee gratefully acknowledges their contributions.

- *European Union*
- *MIUR*
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- *Regione Sicilia*
- *Assessorato regionale ai BB.CC.AA. e Pubblica Istruzione*
- *Provincia Regionale di Siracusa*
- *Comune di Siracusa*
- *Comune di Solarino*
- *Università di Catania*
- *Acciaierie di Sicilia*
- *Cassa Edile Siracusana*
- *ANCE Siracusa*
- *Associazione Provinciale Industriali*
- *Federcasa*
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- *Consulta Ordini Ingegneri Sicilia*
- *Ordine degli Ingegneri di Siracusa*
- *Ordine degli Ingegneri di Catania*
- *ERG*
- *Polimeri Europa*
- *SICEP SpA*
- *AMA Group*



ORGANIZING COMMITTEE

Istituto Autonomo Case Popolari (IACP), Syracuse

Department of Civil and Environmental Engineering, University of Catania

S.A.P. Studio Engineering s.r.l.

R.C. s.r.l.

FIP Industriale SPA



INNOVATIVE TECHNIQUES OF SEISMIC RETROFITTING

INTERNATIONAL SEMINAR

SYRACUSE – SICILY, 15-17 JULY 2004

The aim of this seminar is to review modern techniques of seismic retrofitting based on the passive control of the structural response using seismic isolation and energy dissipation, in comparison with traditional methods.

Quick release tests are being carried out on one of two reinforced concrete residential buildings, owned by IACP of Syracuse, which have been recently retrofitted against earthquake action by base isolation. The aim of the tests is the on-site identification of the dynamic characteristics of the retrofitted building, including the mechanical properties of elastomeric bearings and of the low friction sliding bearings which have been used. The main aspects of the tests performed and of the results obtained will also be shown. During the seminar an opportunity to observe a repeat test will be offered.

The seminar will be based on invited lectures by national and international experts.

Registration

The attendance to this seminar is free. No fees will be charged. However participants are required to register in advance for organizational reasons. The registration may be done by communicating your name and organization to the following address: presidenza@iacpsiracusa.it

The organizing committee is grateful to the participants for their kind cooperation. Registration should be received not later than July 7th to allow the organizers to provide adequate facilities.

Accommodation

Information about accommodation and amenities may be obtained at the following address: RosyGibilisco@fieradelsud.it
<http://www.apt-siracusa.it/uk/pag1.html>