

19th European Regional Earthquake Engineering Seminar

December 1-4, Cairo, Egypt

TECHNICAL PROGRAM

Monday, Dec. 1, 1997

Opening Ceremony

Keynote Lecture 1:

Chairperson **Prof.M.Sobaih (Egypt)**

Prof.R.G.Flesch (Austria) "Comparison of different methods for earthquake resistant design of high rise buildings"

Session 1: Seismic Analysis, Design & Codes I

Chairperson: **Prof.Z.Zembaty (Poland)**

A.Kopecsiri & L.P.Kollar (Hungary) "Analysis of building structures subjected to earthquakes by the continuum method"

N.Zisi (Makedonia) "Micro-analytical modelling for damage degree prediction for R/C structures exposed to earthquakes"

J.Novotny (Czech) "Seismic response analysis of a structure with gaps in elastic supports"

Keynote Lecture 2:

Chairperson: **Prof.R.G.Flesch**

Prof.A.S.Elnashai (UK) "Conceptual seismic design of RC bridges"

Session 2: Seismic Analysis, Design & Codes II

Chairperson: **Prof.R.G.Flesch**

D.Kisliakov (Bulgaria) "Earthquake induced vibrations of multiple-supported pressure pipelines"

C.Fischer and J.Naprstek (Czech) "Some remarks on the character of non-stationary seismic excitation"

A.El.Shabrawi and H.Helal (Egypt) "Evaluation of earthquake induced-damage in historical buildings using numerical modelling"

A.K.Gabr and M.Sobaih (Egypt) "Seismic risk evaluation of Mannsoura bridge in Egypt"

Keynote Lecture 3:

Chairperson: **Prof.R.G.Flesch**

Prof.A.S.Elnashai (UK) "Analytical assessment of the seismic response of RC bridges and applications to recent earthquakes"

Tuesday, December 2, 1997

Keynote Lecture 4:

Chairperson: **Prof.M.Sobaih (Egypt)**

Prof.M.Erdik (Turkey) " Assessment of Earthquake Ground Motions for Near Fault Conditions"

Keynote Lecture 5:

Chairperson: **Prof.A.S.Elnashai (UK)**

Prof.Z.Zembaty "Spatial seismic effects on multi-support structures"

Keynote Lecture 6:

Chairperson: **Prof.T.Macky (Egypt)**

Prof.A.Ansal (Turkey) "Seismic microzonation for ground shaking intensity with respect to geotechnical factors"

Session 3: Seismicity, Hazard & Soil

Chairperson: **Prof.A.Ansal (Turkey)**

S.Kythreoti, V.Stovin & K.Pilakoutas (UK) "The consideration of seismic energy analysis of Cyprus earthquake record"

S.Vlatko (Macedonia) "Case study of spatial distribution of seismic geotechnical hazards"

G.Birgören (Turkey) "Probabilistic assessment of seismic hazard in Cyprus region"

A.Erken (Turkey) "Liquefaction potential of sandy soils during 1992 earthquake"

A.H.C.Chan (UK) "Numerical parametric study of VELACS model 3"

V.Midzi (Norway) "Hazard Assessment Study for the eastern Zimbabwe and Mozambique subregion"

M.Hadid (Algeria) "Influence of local site geology on earthquake ground motion"

R.N.Albert (Egypt) "The new national telemetry seismic and accelerograph network in Egypt"

Session 4: Experimental Analysis

Chairperson: **Prof.R.G.Flesch (Austria)**

L.Bognar (Hungary) "Experimental investigation of the significance of the P-delta effect for randomly excited steel columns"

A.Kwiecien (Poland) "Distribution of surface waves in the underground (investigation in situ)"

D.Lagab (France) "Retrofitting methodology of an existing reinforced concrete building by energy dissipator devices"

J.Habenberger (Germany) "Tank Damages during the Cariaco (Venezuela) earthquake - Evaluation of critical pressure distribution"

R.Weitzmann (Germany) "Advanced capacity design with methods of mathematical programming"

Thursday, December 4, 1997

Keynote Lecture 7:

Chairperson: **Prof.E.Juhasova (Slovakia)**

Prof.P.Bisch (France) "Determination of Strengthening"

Keynote Lecture 8:

Chairperson: **Prof.R.Flesch (Austria)**

Prof.E.Juhasova (Slovakia) "Simplified versus more complicated methods of seismic design"

Session 5: Strong Motion and Site Effects

Chairperson: **Prof.P.Bisch (France)**

N.Horn (Austria) "Methodology of retrofitting during tank damage in the Caracas Earthquake July 1977"

E.R.Wertzmann (Austria) "Advanced capacity design methods of mathematical programming"

Keynote Lecture 9:

Chairperson: **Prof.P.Bisch (France)**

Prof.M.Sobaih (Egypt) "Seismic risk assessment of buildings and urban areas"

Closing Ceremony

Organizing Committee

M.Sobaih (Egypt), R.Flesch (Austria), J.Eisenberg (Russia), P.Bisch (France), A.Ansal (Turkey), A.Castellani (Italy)