

# *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)