

Global platform for disaster risk reduction and world reconstruction conference, 8-13 May 2011, Geneva , Switzerland

Contribution of IZIIS to Earthquake Disaster Reduction

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President of EAEE



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SAR - Karpos II Settlement



Based on the recommendation of the:

➤ United Nations International Consultative Board for renewal and rebuilding of Skopje,

and the decision of:

➤ The Government of the Republic of Macedonia; and,

➤ The City of Skopje Authorities,

within the University "St. Cyril and Methodius", Skopje in 1965 was established the Institute of Earthquake Engineering and Engineering Seismology, IZIS-Skopje.

The Institute was the first Europe's institution of this kind, responsible to assist and supervise the post-earthquake reconstruction and development of Skopje, education and research in the field.

Education

Training

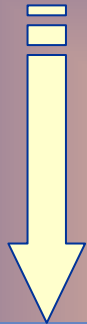
IZIIS

Basic
Research

Applied
Research

Scope of Activities

Education



Training



IZIIS

Postgraduate Studies for

- Master of Technical Science
- Doctor of Technical Science

Long and short term courses

International Master Course at IZIS

- The first post-graduate studies in EARTHQUAKE ENGINEERING IN EUROPA were held in the Institute in 1967.
- Since then, the Institute has continuously been holding master studies
- International doctoral studies are also currently underway



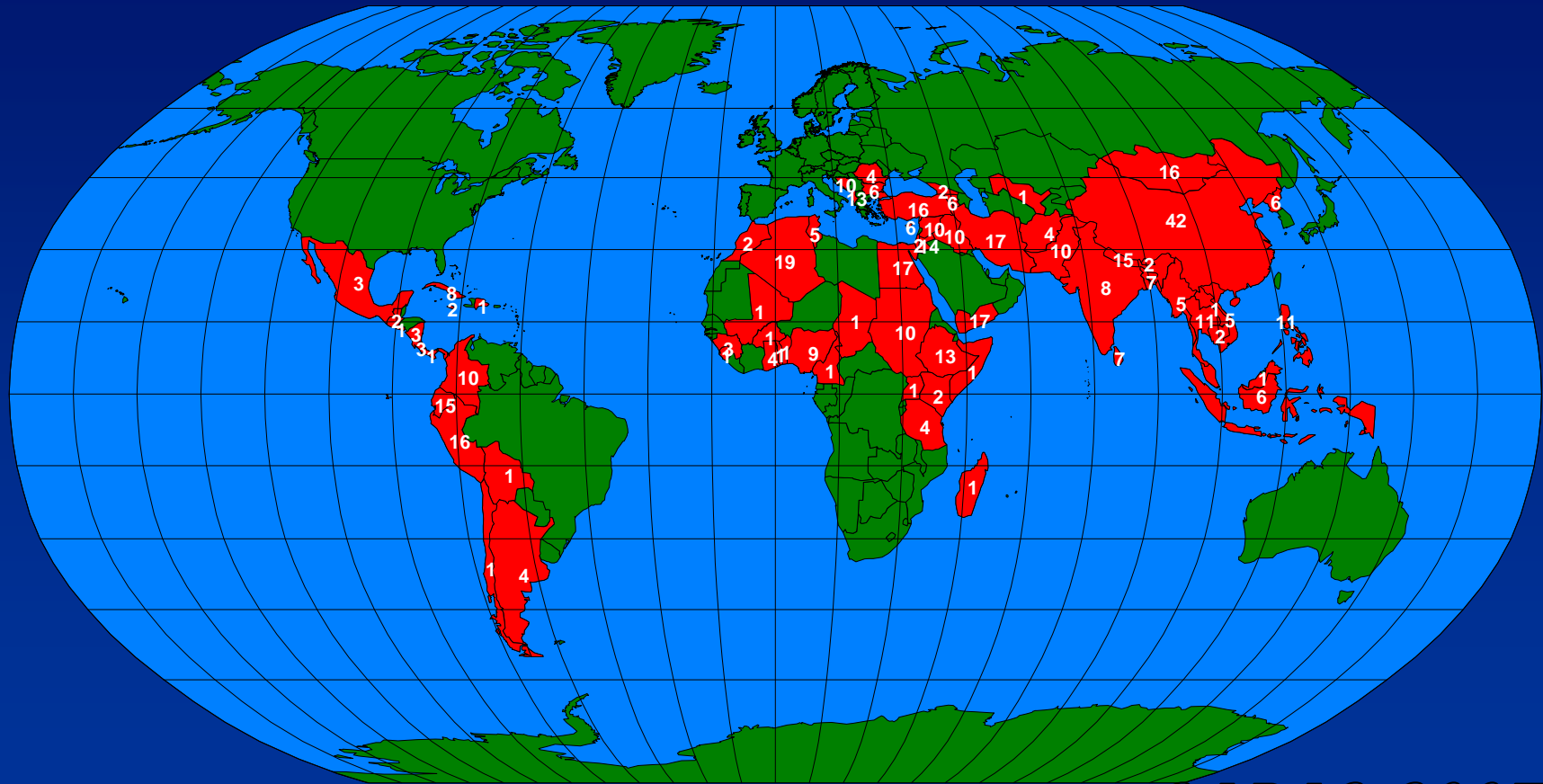
EARTHQUAKE ENGINEERING

International Course Sponsored by Dutch Government

IZIIS - CADAQ

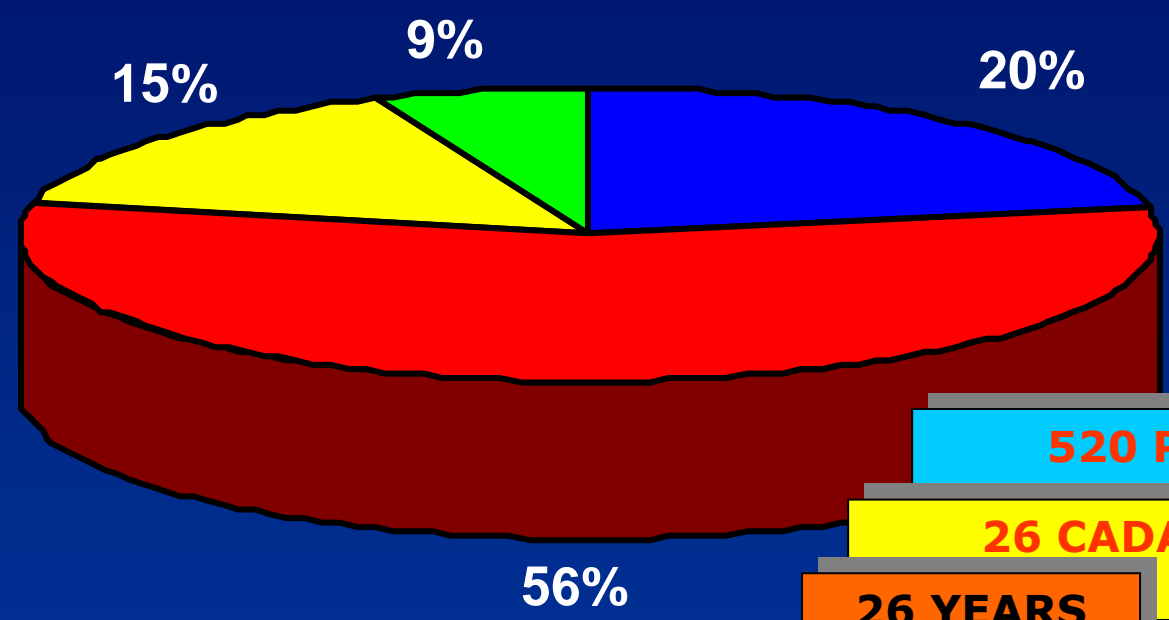
COURSE

Participants from 74 countries



CADAC 2007

26 Years of CADAC



520 PARTICIPANTS
26 CADAC's
26 YEARS

- AFRICA
- ASIA
- AMERICA
- EUROPE

CADAC 2007

CADAC Moments...



CADAC²⁵



25 години ИНТЕРНАЦИОНАЛЕН
КУРС ЗА АСЕИЗМИЧКО
ПРОЕКТИРАЊЕ И ГРАДБА



1106 СКОПЈЕ 17.7.2006

A large graphic on a dark blue background. It features a world map with the continents highlighted in orange. A blue arc curves across the bottom of the map. The text "25 YEARS OF BUILDING A SAFER WORLD" is written in white, following the curve of the arc. Below the arc, the text "CADAC25" is written in a large, white, outlined font. Underneath "CADAC25", the text "INTERNATIONAL COURSE ON ASEISMIC DESIGN AND CONSTRUCTION" is written in a smaller, white, sans-serif font. A small red seismic wave graphic is positioned to the left of the "CADAC25" text.

www.iziis.ukim.edu.mk

25 YEARS OF BUILDING A SAFER WORLD

CADAC25

INTERNATIONAL
COURSE ON ASEISMIC DESIGN
AND CONSTRUCTION

Education

Training

IIS

Basic Research

Applied
Research

Scope of Activities

Shaking Table Testing of Model M-SN-BIC



Steel structure and Isolators



Base isolated model



Isolator in action

9/22/2000

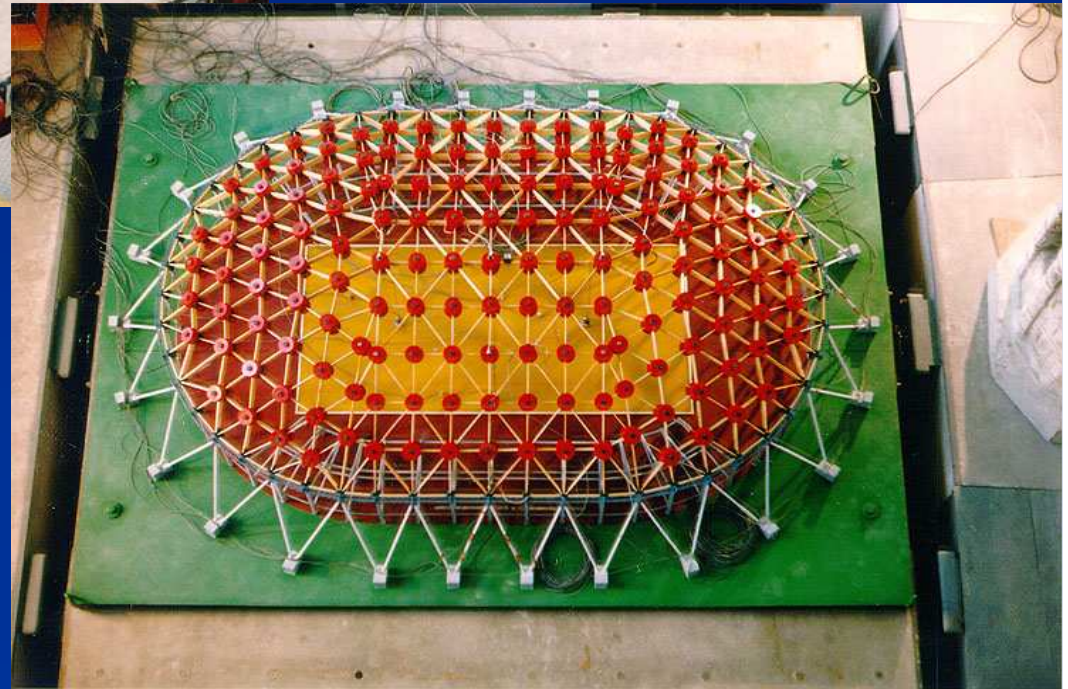
FP6 PROJECT



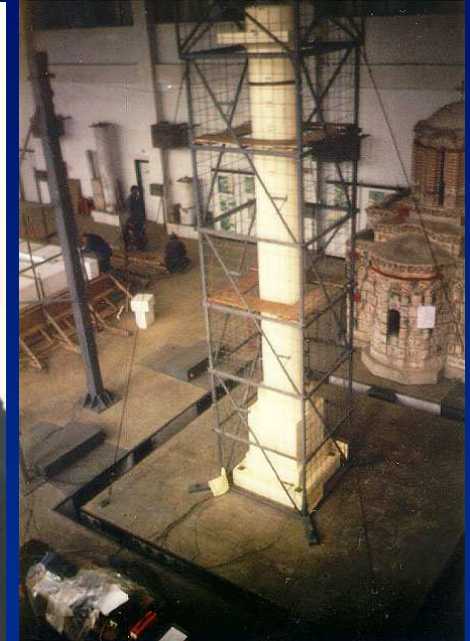
FP6 PROJECT



PalaSport Bologna IZIS Report 93-48, 1993 Concrete Roof



Visit of Prince Charles paid to IZIIS during the tests performed on the model of Antonius' column (Rome, Italy)



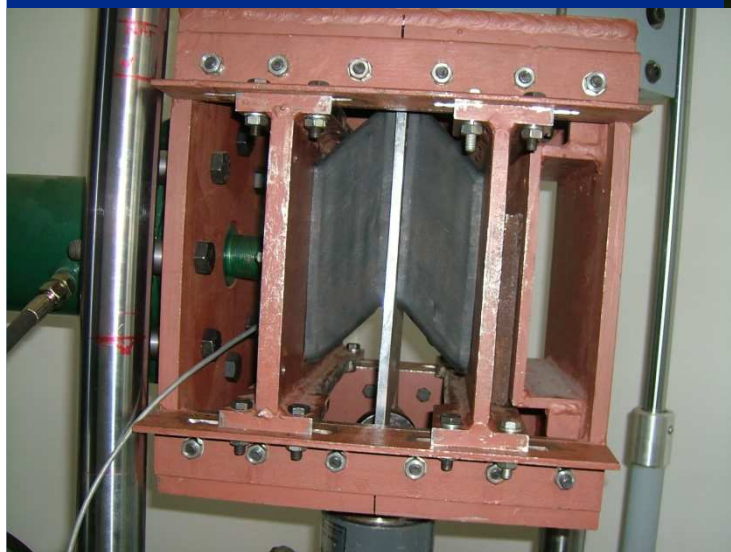


NATO SfP Seismic Assessment and Rehabilitation of Existing Buildings



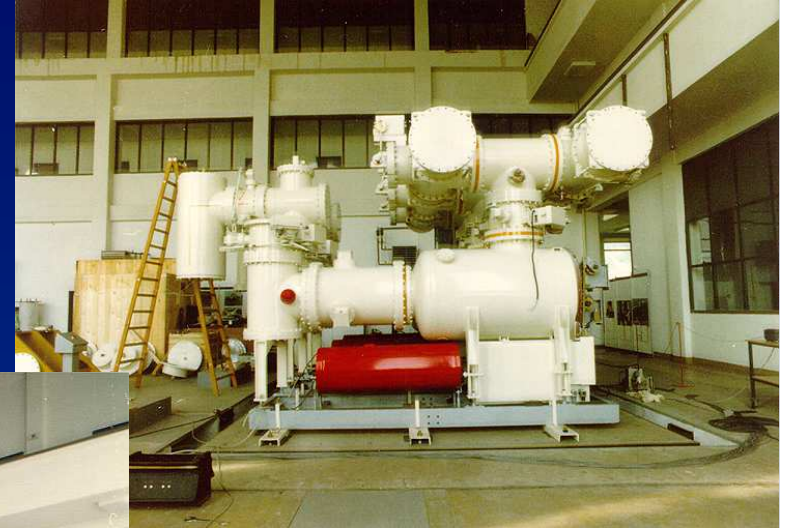


➤ NATO SfP
Development of
Low-cost Rubber
Bearing for
Seismic Safety of
Structures in
Macedonia and
Balkan
(Macedonia, Alba
nia, Italy and
USA)

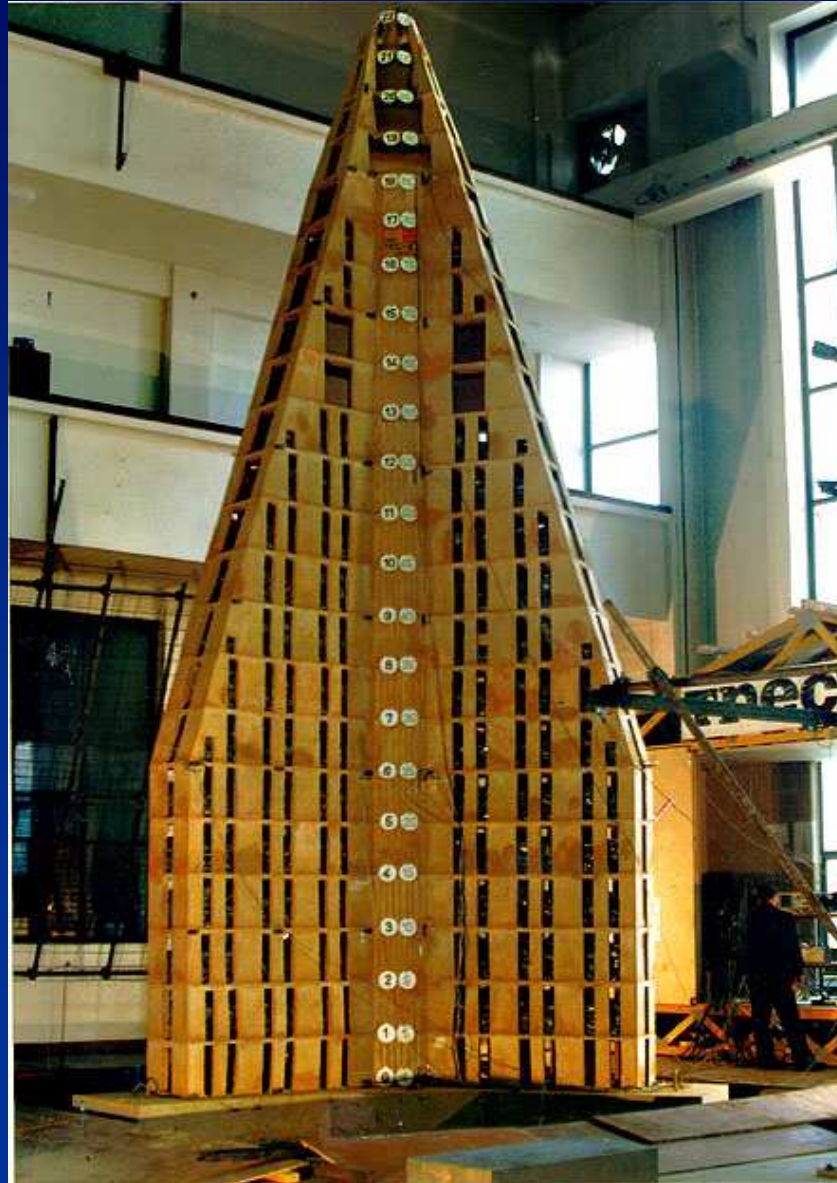




Small selection of Research Projects



**105 Storey Ryugyong Hotel Pyongyang DPR Korea
IZIIS Report 92 - 061, 1992**



WIENERBERGER TWO STOREY MASONRY MODELS WITHOUT AND WITH ANTISEISMIC DEVICES



TMCS – Testing structure



SONICO – Ventilated Facade System



IZHS

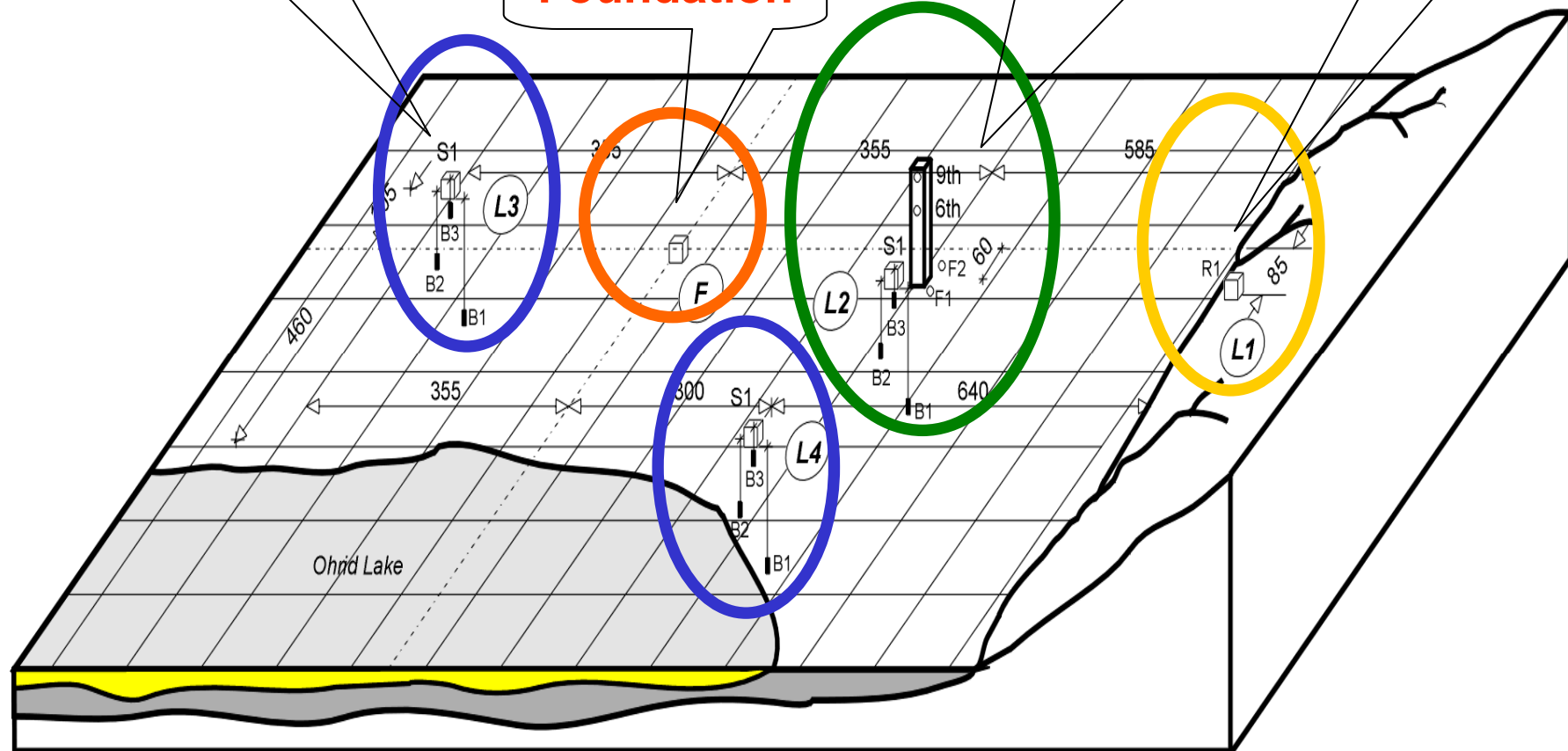


Free field
(9 Ch)

Instrumented Building
including the soil profile
up to the bedrock (36 Ch)

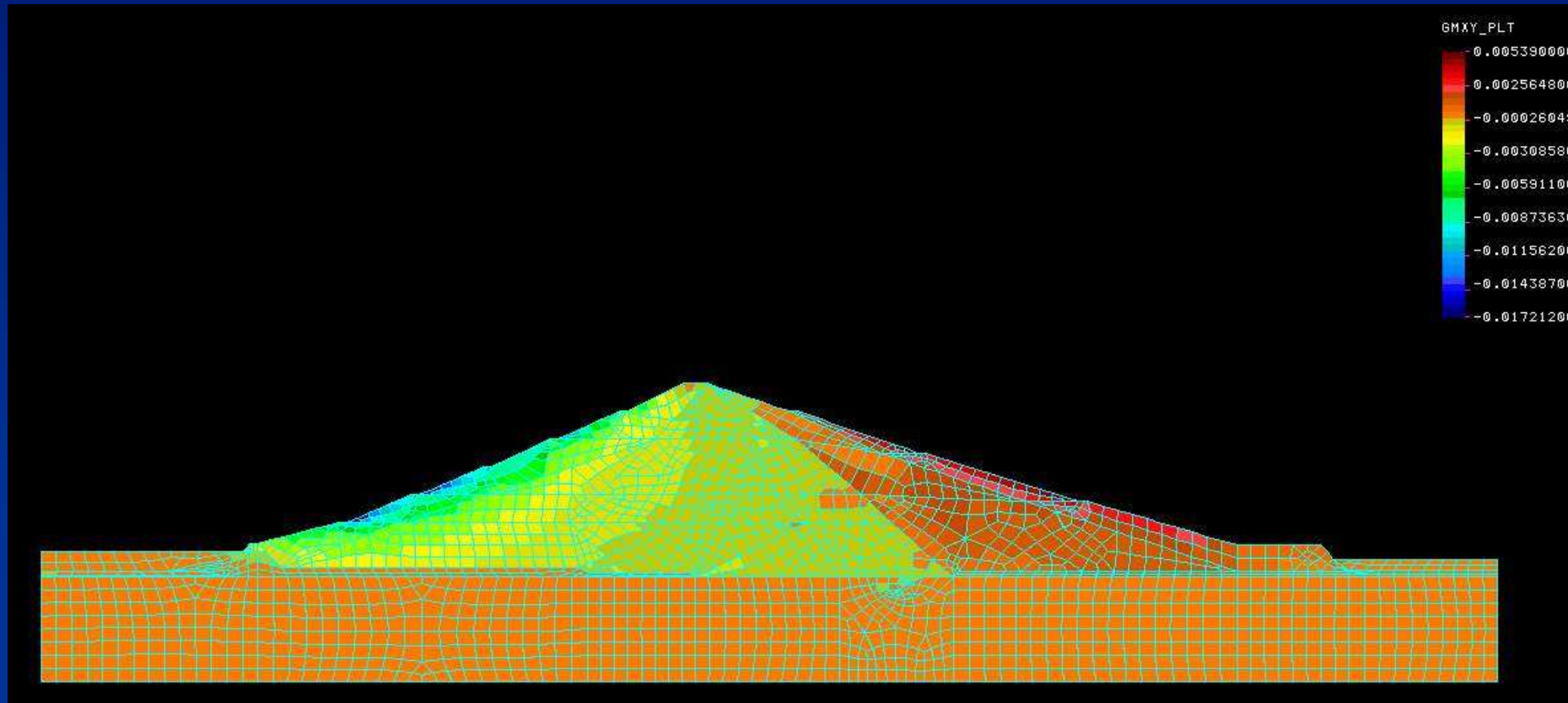
Outcropping
rock (3 Ch)

Foundation



DENSE 3D STRONG MOTION ARRAY
OHRID LAKE VALLEY (1979)

REEVALUATION OF DYNAMIC STABILITY OF MAVROVO, GLOBOCHITSA, TIKVESH AND SHPILJE DAMS

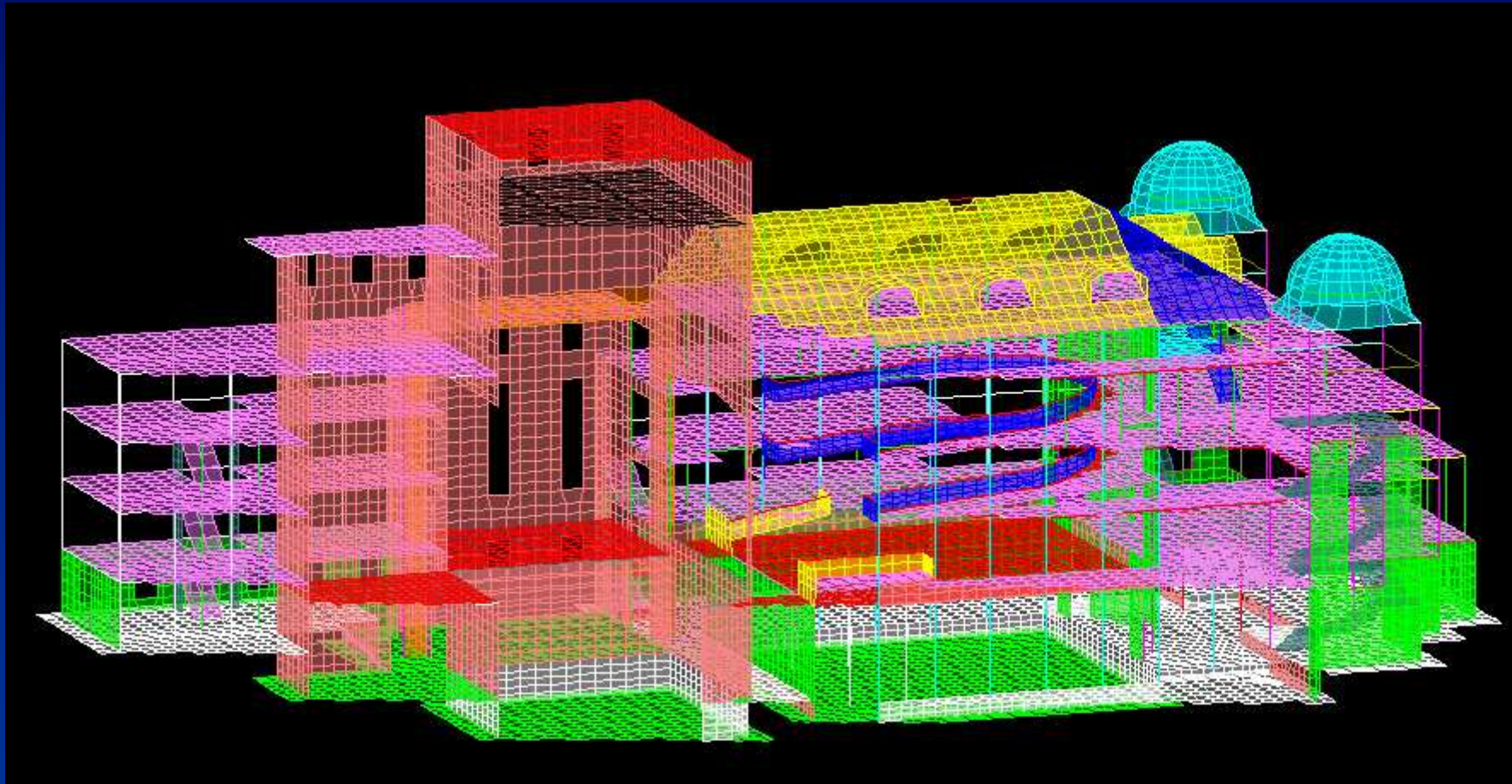


MILENIUMSKI KRST: (N=76m) VODNO-SKOPJE



Sl. 1-a. Proektiran izgled na Mileniumskiot krst:
(a) vo tek na denot

FEM na Teatarot



IZIIS team visiting a site stricken by the 1999 Izmit earthquake (post disaster assistance)



Assistance provided after the Pakistani earthquake of 2005 at the invitation of the Pakistani government



EQ LAKVILA ITALY 2009



2003

International conference to mark 40 years since 1963 Skopje catastrophic earthquake

International Conference in Earthquake Engineering to Mark 40 Years from Catastrophic 1963 Skopje Earthquake and Successful City Reconstruction

SKOPJE EARTHQUAKE - 40 YEARS OF EUROPEAN EARTHQUAKE ENGINEERING

SE 40EEE

26-29 AUGUST 2003
26-29 SKOPJE
OHRID SKOPJE
OF REPUBLIC OF MACEDONIA
MACEDONIA

Organized by:
Institute of Earthquake Engineering and Engineering Seismology (IZIIS)
University "SS. Cyril and Methodius", Skopje

CALL FOR PAPERS
www.iziis.ukim.edu.mk/SE-40EEE

346 Participants

EE - 21C
International Conference on Earthquake Engineering to Mark 40 Years

27 August - 1 September, 2005
Skopje - Ohrid

Republic of Macedonia

of IZIS - Skopje

ENGINEERING IN THE 21st CENTURY

378 Participants

2005

International conference to mark 40 years since the establishment of IZIS



Ohrid
30.08-03.09



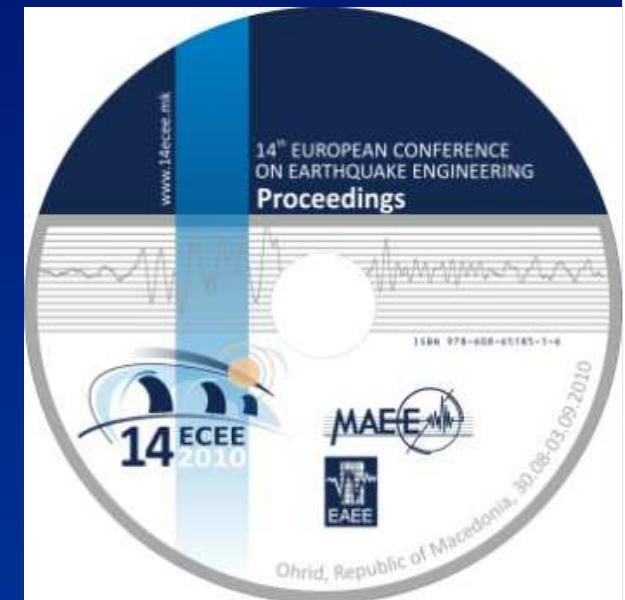
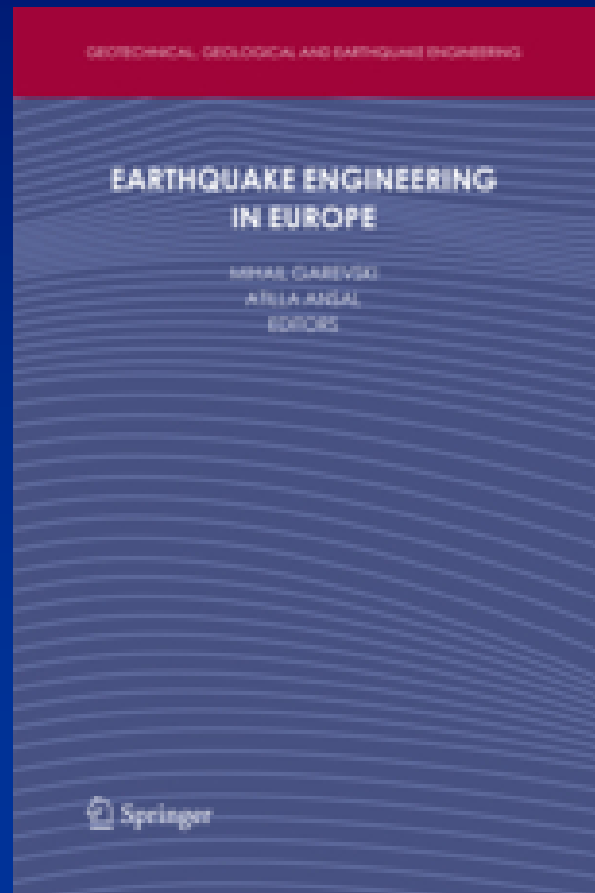
Official opening of the 14ECEE



14ECEE-Plenary
session



MATERIAL HAS BEEN COMPILED CONSISTING OF THE BOOK “EARTHQUAKE ENGINEERING IN EUROPE”, THE BOOK OF ABSTRACTS AND THE CD.



THANK YOU