#### Newsletter Vol.1 No. 12 December 2012

## **PLPAK NEWSLETTER**

Your host to the latest progress and updates



## BE4E in 2012

Since its first edition in Jan. 2012, BE4E newsletters have presented different news about BE4E and PLPAK. The news included our latest published papers, consulting services and external cooperation (e.g. with NTUA). The last edition in 2012, will present an overview of the materials published through the whole year.

#### i- The consulting services

BE4E consulting services have recived many types of strutural elements in this year (slabs and foundations) that need accurate and fast modeling we reprenstent them from figures (1) to (6).

#### SPECIAL OFFER

Special prices are available exclusively for academics!

#### **CONTACT:**

Information about the PLPAK: info@be4e.com

Courses, seminars & consulting, webinars: services@be4e.com

Sales: sales@be4e.com

Research and developments: RnD@be4e.com

Customer support: support@be4e.com

#### **DEVELOPMENT**

The PLPAK software is in constant development to meet the needs of industrial and research purposes. Updates to the software will be posted monthly.

#### EDITORS Mostafa E. Mobasher Mahmoud El Galad Youssef F. Rashed

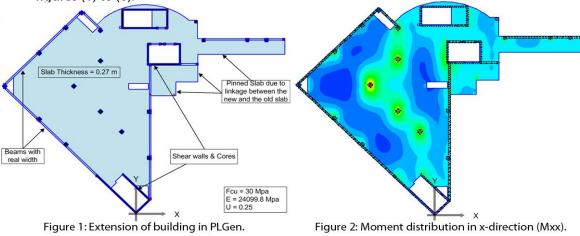


Figure 3: Silo's piled raft in PLGen.

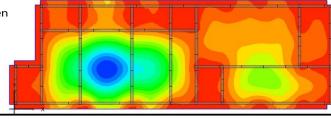
Figure

Slab thickness = 20 cm

Figure 4: Moment distribution in y-direction (Myy).

Figure 6: Vertical deformation (Uz).

Figure 5: Multi-thickness slab in PLGen



New coming: Boundary elements tutorials by Prof. Dr. Youssef F. Rashed



### ii- The PLPAK at the National Technical University of Athens (NTUA), Greece

Professor Youssef Rashed (BE4E principal and technical director) visited the NTUA in July 2012, he met professors T Katsikadelis, M Papadrakaikis, V Plavris & L Stavridis and discussed about the development and strengths of the PLPAK and boundary element techniques.



Photo2: Professor Y Rashed with Professor S Mehanny, M Papadrakaikis and V Plavris



Photo1: Professor Y Rashed with Professor L Stavridis



Photo 3: Professor Y Rashed with Professor T Katsikadelis

## iii- Published Papers based on the PLPAK

Engineering Structures - Vol. 33, Issue 10, JULY 2011, Pages 2919-2930

## A PROBABILISTIC BOUNDARY ELEMENT METHOD APPLIED TO PILE DISLOCATION PROBLEM

Samer Sabry F. Mehanny, Sameh S. F. Mehanny, Youssef F. Rashed



In this paper a probabilistic approach where the boundary element method is efficiently to study the random shift of a given pile within a particular pile cap from it's original position on selected output design parameter such as pile Sand Shall Manuel Sand St. Melann and Passell Radial loads and bending moments in the pile cap.

A probabilistic boundary element method applied to the pile dislocation problem

Separate of Brussell Digitaring (Decilorate), Spip Reparate of the Chipmens, Bross Stocker, Spip, Dy Jr.

ARTICLE IRES

ARSTRACT

oed to study the effect of a cusakka lidal of a givers pile within a punicular pile cap how the original nition. The sa-called pile dialocation produting—on colocted valgate the ignit parameters carli as pile level. ool brading numeriis in the piles op. A wen stocker internal eleptorit in disveloped to kinskite the true entertric resideding of piles. The broadleys element method for the about-deformable third spiles three riginare to water the pile up. The piles-pile interaction faces are considered to knyr or

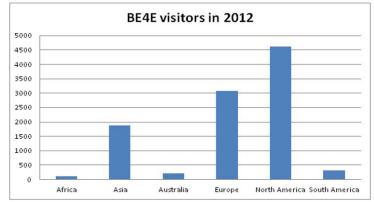
### iv-PLPAK in Concrete International

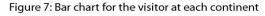
The PLPAK has appeared in the magazine of the American Concrete institute. October 2012, Vol.34 No.10 Pages 54,55.



### v- BE4E Website (www.be4e.com)

In 2012 many users have visited our website and make their registeration to be able to be linking with our services. In Figures (7) and (8) show diagrams for the visitors in our website taffic which has noticeably incerased.





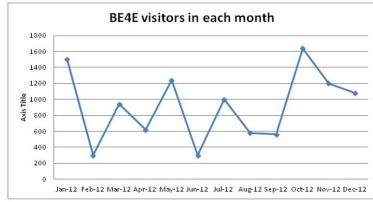


Figure 8: Line chart for the visitor in each month

# Merry Christmas & Happy New Year 2013

### In need of more questions answered?

We are always on the alert to answer your queries and support your smooth transition to a better boundary element sense in analysis. Send us any queries or comments to our new [Questions & Answers] page and await our reply in the coming issue! http://www.be4e.com/site/node/56 The form which you can fill out is shown betow:



