



VASSILIKO
CEMENT

SINCE 1963

DOMISI



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"World Environment Day" Page 18

“
Our vision
is to excel as a Successful
company, based on principles
which at their
core encompass
Respect and Contribution.
”

Dear Colleagues, Friends and Associates,

Welcome to the first edition of our newsletter "DOMISI" for 2017. To this day we number already 16 editions of Domisi newsletter and our wish is to continue our successful path aiming at giving you an insight on all our actions and activities. Through the pages of this edition, you will have the opportunity to get informed about our social contribution, actions around volunteerism, our participation in Limassol Marathon, the celebration of Woman's Day, and an interesting interview of Mr. Michalis Christoforou, Civil Engineer and our company's associate.

We wish you all the best for a beautiful and creative year!

The Editing Team

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INTERNATIONAL RARE DISEASE DAY

Not only words but deeds. Deeds that take only 10 minutes of our time. On February 28, responding to the call of "UNIQUE SMILES" Association, we wore jeans trousers and took photos with hands up to support children with rare diseases, expressing our respect and love.

Press conference of the "UNIQUE SMILES" ASSOCIATION



Vassiliko Cement Works supports Unique Smiles. Therefore, during the press conference of "Unique Smiles" Association on February 21 and on the occasion of celebrating their 3 years of establishment, we were honored as one of their supporters in their arduous task.

- The Association's actions to date were briefly discussed at the conference and its actions for the new year were announced. Out of all Association's actions, the one that stands out the most is the Rare Disease Day campaign (February 28) which takes place in all Cyprus schools.

Cyprus numbers approximately fifty thousand people with Rare Diseases.

“ Did you know that...

In 1891 George Bartholomew constructed the first road made of concrete in the USA at Bellefontaine, still existing at present. ”

2017: New Year, New Beginning

The new year knocked on our door and we welcomed it as it suits it. On January 19, the annual Holy Blessing of Waters took place along with the traditional Santa Claus pita cutting.

In the presence of the Board of Directors, the Company's personnel received wishes for a successful year from His Eminence, the Bishop of Karpasia Christoforos.

2016 granting of awards was then followed regarding: "Ethos" for Mr. Dimitris Lazandreas and honorary award to colleagues Messrs Stavros Karagiorgis, Georgios Vassiliou and Savvas Petrakis for their 35-year contribution to the Company.

We finally concluded the event with the Santa Claus cake and a light celebration meal.





INTERVIEW OF Mr. Michalis Christoforou (VCW Counsellor)

Dear Mr. Christoforou, we are very pleased to be hosting you in our magazine "DOMISI", with an interesting interview about the renovation of the central administration offices in Vassiliko Cement Works and, in general, the various projects that you have undertaken, as a Project Manager and Representative of Vassiliko Cement Works, during the recent years.

My cooperation with Vassiliko Cement Works started in the mid-2013, as a member of the project management team for the installation of the Additive Transport, Alternative Fuel System and other similar projects.

One of the most important and decisive projects was the Static Upgrading, Maintenance, Configuration, Expansion and Reorganisation of the building of the Company's Head Office.

1976-2015, we are talking about a building about 40 years old. An Intervention was surely necessary. Tell us a few words about how the great renovation decision was made. What were the key factors that led to this decision?

The Management of Vassiliko Cement Works decided to maintain, repair and strengthen the static structure and radically reorganise the existing building because it no longer served the needs for which it was built, was not in line with the current modern requirements and needs of the company and its employees nor with developments in technology, economy, materials science, and sustainable development strategies (sustainability).

The Headquarters Administration Building is a remarkable and quite innovative building for the period that it was designed and studied (around 1975) by the architect Athos Dikaïos, with special features both in its shape and in the combination of prefabricated panels made of visible concrete on its shell.

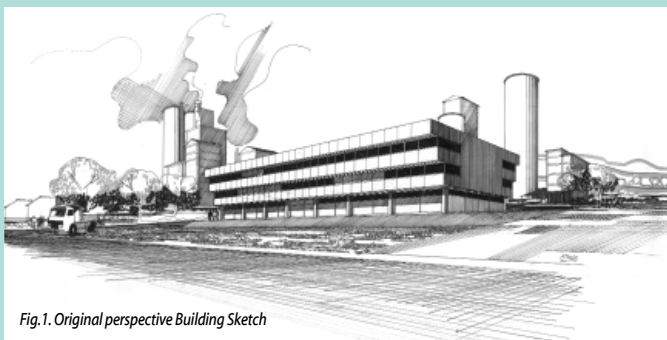


Fig.1. Original perspective Building Sketch



View of the building during its construction 1976

The Original building was built in 1976 and in around 1992 it was expanded to the south wing. It extends into three levels, with original areas, ground floor (412 sq. m.), 1st floor (494 sq. m.) and 2nd floor (536 sq. m.). Total area 1,442 sq. m.

Over time, due to lack of systematic maintenance, the intense corrosive environment and the aging of the construction, the building had several problems, such as:

- ▶ In the shell: oxidation of reinforcements especially in the pillars on the north side of the building (the base), worn and disintegrated plasters and concrete, worn masonry, cracks, worn windows and doors, moisture penetration, clutter of mechanical and electrical installations (pipes, air conditioning units etc.), the existence of non-active services, installations and machinery etc.



Exterior Building View before Construction Works.

- ▶ Inside: Worn and disintegrated plasters, worn and detached floors (ceramic, plastic etc.) clutter of mechanical installations, variety of ceilings, partitions and light fixtures. Presence of non-active cables, piping and mechanical systems, hygiene facilities with worn-out sanitary ware and hydraulic / mechanical installations



View of the Building Interior Before Construction Works

- ▶ Function: Non-functional layout of offices and other areas, lack of conference and meeting rooms, non-ergonomic sanitary facilities, absence of functional waiting rooms on both the ground floor and the other floors, absence of lifts, inadequate air conditioning, ventilation and natural lighting in the offices and other public areas, no access from the south side, lack of archive space, temporary use of a container outside the main building, etc.

● **Which were the parameters taken into account with regard to Study and Design from the Management and Administration point of view? Have you encountered any difficulties in studying and performing the task?**

Initially, the project team spotted the static and other problems that existed as well as the need for redesigning the use of the premises and it was decided that an evaluation of the existing structure of the building and a check of its static adequacy should be prepared by a technical study firm.

Once all these were examined, we went on to prepare a masterplan for the maintenance, repair, reinforcement, renovation and reorganization of the building and the configuration of the surrounding areas.

The project, which was carried out in two phases (A+B) within 12 calendar months, included among other things, the reinforcement of the static structure and the prefabricated panels in the building shell, the complete reorganisation of the office area, meeting rooms / conference rooms, the building of a multipurpose hall on the ground floor and, at the same time, the south-east extension of the building by adding new entrances and a lift, the reshaping of the surrounding area, the construction of controlled access and a parking space for the staff and visitors on the south side of the building and the south square.

The peculiarity of the task which predicted the increased degree of difficulty of the project both during the study and during the construction was:

- maintaining the day-to-day operation of the building,
- the static restoration and reinforcement of the static structure of the existing building,
- ensuring the continuous operation of the central control systems,
- redesigning, maintaining and moving of the Central Server in the especially designed room in the building, while maintaining its daily operation,
- the safety and health of the approximately 50 workers, users and visitors of the building both during their work and their temporary movement in the building during the carrying-out of the various phases of the project and
- checking and monitoring the final cost of the project, the stated duration of the project and assurance of the quality.

The study, the design, the management of the carrying-out of the project demanded detailed technoeconomic planning. The decision for the implementation of the whole project was taken after a Value Engineering Workshop at the pre-study stage. The study was carried out by the Project Manager in collaboration with both the VCW representatives / Engineers and the Scholars Team, based on the preliminary assumptions and assessments made.

A decisive factor for the architectural approach to renovating and expanding the building was the aesthetics integration between the existing building (that was built in 1976), the southern expansion (that took place in 1992) and the current expansion.

With the exterior maintenance of the building shell, the original architectural look of the building was preserved, the expansion made was incorporated, and the static reinforcements that had to be made were architecturally evaluated. The worn suspended prefabricated concrete panels were repaired, reinforced with FRP (Fibre-reinforced plastic) and maintained. The need for further support / reinforcement by using metal angles and bolts added yet another unique architectural feature to the new and upgraded look of the building giving it a sense of dynamic variability which aimed at a more contemporary aesthetic quality. What is more, a new panoramic elevator that serves all levels of the building (ground floor, 1st and 2nd floor) and has a view of the port was installed in the new southeast expansion.



The outside space was reformed, the planted surrounding area was supplemented with additional plantation including new vegetation in accordance with the study. Moreover, a new staff and visitors parking lot was constructed, with south access (new entrance / exit) as well as a southern square for various uses and events.

In the existing building there were other significant spatial and operational problems. The large width of the offices and the southwestern expansion resulted in the placement of enclosed office and other spaces that did not comply with fundamental conveniences, without natural lighting, small enclosed spaces, unused spaces etc.



View Before Construction Works

View After Construction Works



Landscaping of outside area, South Square

The central staircase was functionally preserved, but the offices and other premises were rearranged to accommodate the new building requirements of VCW Management. The offices, the working and auxiliary areas were centrally positioned, glass partitions were installed thus creating bright lighting in most of the separations with an internal view of both the factory and the harbour as well as the perimetrical green areas.

On the ground floor a new open reception area with a waiting room is being built. The staff department was located in the eastern section, and a multifunction hall for seminars, lectures, meetings etc. in the western section. The multifunction hall would function with the cooperation of the cafeteria and in combination with the new outside areas. The accounting department was placed on the first floor of the eastern section and the sales department, the IT department etc. in the west. The company management was placed on the 2nd floor.



Interior areas Before Construction Work

● *A significant energy upgrade of the building has also been achieved. What exactly has been done and what are the results?*

It is planned to install energy saving systems from renewable sources such as photovoltaics with the auto production system. Photovoltaics will be installed on the roof of the building and their installation has already begun.

For the energy upgrading and the best energy efficiency of the building, thermal insulation has been applied to the building shell, with 6 cm thick stone wool on the inside of the prefabricated panels, 8 cm thick extruded polystyrene on the ceiling plate and aluminium energy frames with energy-calculated glass panes.



Interior areas After Construction Work

The “Energy Efficiency Certificate” (EEP) has been issued in accordance with the legislation at the stage of project completion. From 2.51 category G (existing building) it was upgraded to 0.94, category B (EEP B). It should be noted that by adding and completing the installation of the photovoltaic on the roof, it will be further upgraded to 0.79, category B (EEP B). See Table C. 1 of the energy efficiency EEC Upgrade below.

Building Condition	Energy Category	Energy Performance Quotient	Annual Consumption in Energy kwh/m ² /yr	Annual Energy Consumption kwh/m ² /yr	Annual Consumption from RES kwh/m ² /yr	Remainder of Annual Consumption in Primal Energy kwh/m ² /yr
Before Upgrading	Z	2.51	650	240	-	
After Upgrading	B	0.94	278	103	-	
After Upgrading+ photovoltaic	B	0.79	278	103	43	235

C.1 EEC before and after Construction Works

The installation of the photovoltaic system has begun and is expected to be completed by May 2017. 68 frameworks of total capacity of 19.04 kWp will be installed, and they are expected to contribute about 22 kWh per m² and produce 33.32 MWh per year, which is about 12% of the existing needs, considering total annual consumption of 280 MWh.

The carbon dioxide (CO₂) emission savings, due to the reduction in the use of electricity produced by conventional fuels and by using the production of the photovoltaics system is estimated at 19.63 tonnes of CO₂, which corresponds to a reduction of 13 kg of CO₂ per square metre per year. Upon completion of the installation of the photovoltaic system, its energy efficiency index will be 0.79 in Category B.

● **Before closing the interview, what would you like to mention?**

The construction projects are unique. Each and every project is unique. Each one has its own difficulties, processes, requirements and details. It's typical of construction projects, and the handling, or better, the management of each project is different.

One of the most important components for the success of the project is the right choice, primarily of the study team and then the contractors / builders. In each project, all the members of the team re-test their knowledge, their experience and their skills to achieve the three main goals:



North View of the building before construction work



North View of the building after construction work



North View of the building before construction work



North View of the building after construction work

- Complete within the agreed timetable (i.e. on time),
- in accordance to design and specifications and
- within the stated / agreed cost.

The ultimate success of the project is always determined by the results that are not just appearance, pleasant working environment, safety and healthy working conditions. It is the orderly delivery, the immediate use, the users satisfaction, the good operation, the use and maintenance of both the building and the facilities. Proper project management and the adoption of appropriate procedures at all stages and the active involvement of the users in the project monitoring team, ensures its full success, in a great extent.

Rounding off, I would like to express my sincere thanks to all the collaborators, Designers, Supervisors and Contractors for their excellent cooperation as well as for the zeal they have showed for the fulfilment of their professional commitments. Special reference to the VCW staff involved for their prompt and outside narrow professional framework and working hours response.



South face of the building



Panoramic view of the building and outdoors



Grilled Meat Thursday (Tsiknopempti) 2017 Grills were on fire!

Vassiliko and tradition are inseparable. And as faithful followers of tradition, on February 16th, barbecues were on fire at Vassiliko Cement Works!

Like previous years, so did this one, everyone gave their presence. We put on our disguise accessories, we barbecued, sang, danced and kept the best for the end...We all felt like children as a big surprise awaited us in the yard. "Ice cream" like the one we used to eat when we were young; we truly honored it.

None of these would have been realized without our volunteers and our Company's teams. Therefore, we would like to thank each and every one of them for contributing so that we could have a fun day.





WOMAN'S SCENT

8 MARCH 2017

".... However equal to men women become, they never lose what the poet calls the eternal "femininity". It shall always live, pull together and ungird. "

K. Palamas

This year we celebrated Women's Day in the sweetest way possible... With a confectionery workshop! We put on our aprons and as proud "Baking Queens" we executed the recipe.

DID YOU KNOW THAT:

Today, only 1/5 of parliamentary seats are occupied by women and there are only 19 female heads of state (out of approximately 196 candidatures).

The World Economic Forum highlights that the global female workforce has risen by 1 billion in the last ten years but the privileges men held back in 2006 represent a high rate.





LECTURE ENTITLED: "DESCRIPTION OF A NEW CLINKER SILO CONSTRUCTION METHOD WITH PRESTRESSED CONCRETE"

How is a Silo constructed? With what method? With what material? Such questions were answered during the Lecture which was delivered on March 2 in our Company's premises, on the topic "Description of a New Clinker Silo Construction Method with Prestressed Concrete".

The keynote speakers were Messrs Vinzenz Fuchs from **GLEITBAU SALZBURG**, who made a presentation on the topic "**Outstanding Solutions in Slipforming**" and A. Chatzipanagiotidis and A. Antonopoulos from **ELEMKA S.A. -QUAKEGUARD CYPRUS LTD** on the topic "**Special Technical Projects-Application of Post-tensioning in Clinker Silo Construction at Vassiliko Cement Works**".

Participants had the opportunity to get informed about the details of a significant construction at the factory.



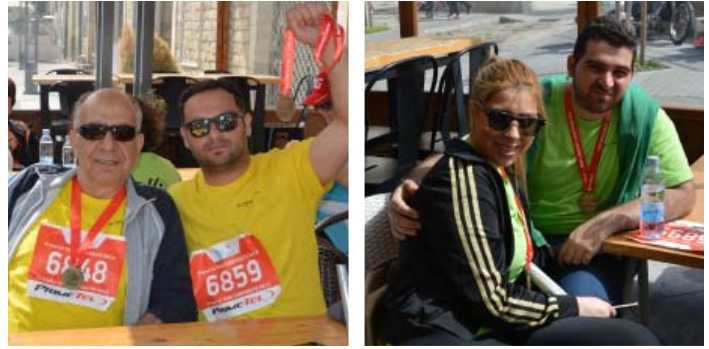
Limassol Marathon "Run and Contribute"

This is the motto of our participation in the 11th Marathon of Limassol which has turned into an institution by now and a point of reference for our company, since it is the 3rd consecutive year we participate.

March 18, time 08:00: The team was gathered at the square for a souvenir photo. We then walked to the starting point through the wonderful coastal line, empowered by the passion of participants aiming at reaching the finish point of the route.

Our participation in the corporate route of 5km has been for us a successful achievement of the target to raise a significant amount for every participant to be offered for a charity purpose; the experience has been unique and special for everyone.

Congratulations to Vassiliko team that finished the race ranking 55th.





WE SUPPORTED THE CAMPAIGN «LET'S DO IT CYPRUS»

As one of the sponsors of the campaign "Let's Do It Cyprus 2017- We Clean Cyprus in a Day", we actively participated with our volunteering employees.

This year we diversified our actions, by choosing to cooperate with the elementary schools of neighboring communities, embellishing with children and teachers the school yards and walls with paintings that we created. We also planted beautiful multi-colored flowers and through the eyes of children we saw our world getting more beautiful and colorful.

Within this campaign, the peak of our activities was the cleaning of the area in the roundabout Zygi-Kalavassos. This cleaning spree resulted in seven waste bags, nine bags with recyclable materials, tyres etc





HOSTING SCHOOLS AT OUR PREMISES

Like the previous years so did this one, we did not miss out on school visits. Teachers and pupils visit our facilities to get a closer look on how cement is produced. They get the opportunity to understand any new technology which is applied to improve the procedures related to the product, quality and the environment.

Our doors remain open to the educational community as we want all our visitors to familiarize themselves with one of the largest industries of Cyprus.

From January until March, 4 visits were carried out by Technical Schools, A' and B' Technical Schools of Limassol, C' Technical School of Nicosia and the Technical School of Pafos (evening class).

DELIVERY OF "ELECTRONIC PIPETTE" TO KARAIISKAKIO FOUNDATION

On March 10, 2017 and on the initiative of our company's employees team "Eagles", we delivered an Electronic Pipette to Karaiskakio Foundation to cover the needs of the Molecular Haematology laboratory working on the examination of patients suffering from leukaemia.

The Foundation's Director Mr. Kosteas warmly thanked us and gave us a tour to their premises, explaining where each laboratory focuses and the Foundation's contribution to research, related to leukaemia among others.

We thank the Karaiskakio Foundation for the opportunity to get acquainted with its work and contribute in our own way to the work performed.





ACTIVITIES IN THE CONTEXT OF WORLD ENVIRONMENT DAY

In the context of celebrating the World Environment Day and in cooperation with the Cypriot Environment Protection Foundation "Terra Cypria", we took 2 important actions involving pupils of neighboring schools.

On April 27th "The Young explorers of Governor's Beach" wearing their white T-shirts with the activity's name, realized a getaway to the Governor's Beach. 60 students and 6 teachers of the elementary schools of Pentakomo and Kalavassos along with the Company's volunteers participated in the event. The ultimate purpose was to familiarize children with the natural environment and get acquainted with various species living in nature. Children collected live organisms from the sea and the land, watched them carefully and discussed with the foundation's supervisors the characteristics of each organism, gathering as much information as possible.

A participation certificate was granted to all pupils at the end of the event





On April 28 2017, 126 children from the elementary schools of Zygi, Maroni and Tochni, educational staff, headmasters along with our company's volunteers participated in an experiential workshop entitled: **"Getting to know the threatened animals of my island"**, held at the premise of Zygi Municipal Council and was marked with success.

The program included 6 sections with the following names; **"Getting to know our feathered friends"**, **" the yellow-black heroes, the bees"**, **"the admirable world of the snakes"**, **" the unknown turtles"**, **"Let's play the Secret Animal"**, **"Let's get to know the misunderstood animals"**; the program's aim was to familiarize children with the characteristics of misunderstood species threatened to become extinct from Cypriot nature in order to dispel fears and myths around them and protect them and on the other hand to impart knowledge on Cyprus fauna and collect information on some species population through various pleasant activities.

An attendance certificate was granted to pupils at the end of the workshop, as well as posters with the animals they had been acquainted.

We would like to warmly thank the **Terra Cypria** organization for this wonderful cooperation and the people in charge of **Zygi Municipal Council** for offering the people and for the excellent cooperation before and during the program.





ΒΑΣΙΛΙΚΟ
C E M E N T

SINCE 1963

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