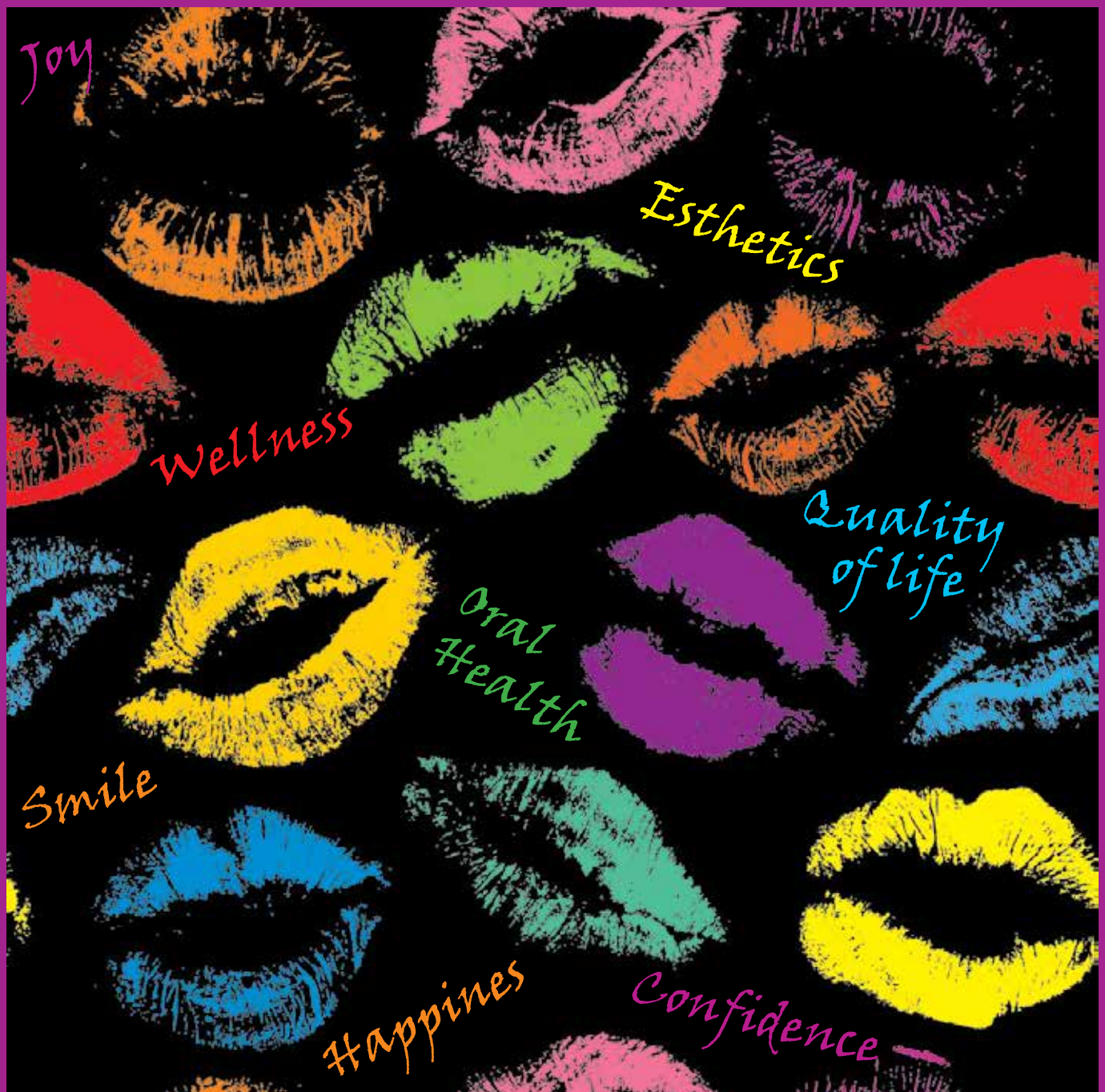


# DECEMBER 2016 Newsletter



The Maurice and Gabriela  
Goldschleger School of  
Dental Medicine

Founded by the Alpha Omega  
International Fraternity





The Maurice and Gabriela Goldschleger School of  
Dental Medicine Founded by the Alpha Omega  
International Dental Fraternity



We take pleasure in inviting you to the

## Inauguration of the Special Care Center Friday 19 May, 2017 10:30 a.m.

At the Dental School Entrance  
Tel-Aviv University  
Ramat-Aviv

Celebrating our 40<sup>th</sup> Anniversary  
**40**  
The Goldschleger School of  
Dental Medicine

Celebrating our 40<sup>th</sup> Anniversary of  
The Goldschleger School of Dental Medicine  
**Practicing Excellence**



## MESSAGE FROM THE HEAD OF SCHOOL



*Prof. Ervin Weiss*

### RESHAPING THE FUTURE OF DENTAL EDUCATION

Dear, friends, fraters and family members of the Tel Aviv University School of Dental Medicine. Our primary goal was, and still is, to transform our School in to a worldwide leading Dental School, while seeking innovative ways to gain financial stability. A significant step forward in the development of the school, is the University is approval, for the first time, to increase dental students' admission and enrolment by more than 40%. As of October 2016, 66 new dental students started their first year at the dental school. This provides, an opportunity to revisit our plans for the future.

It is a pleasure to share with you the highlights of the exciting changes our School is going through.

### RESTRUCTURING CLINICAL TEACHING

One of the most striking change in our School is happening these days in the clinical field of the fifth year's students (junior classes). During the past few month, junior students were paired in the clinic; two students are treating the same patient. One is the operator while his peer is assists him. Subsequently they alternate and the operator, becomes the assistant. In this teaching model, the assisting student is performing, and credited for all those

tasks that a trained dental assistant is doing a similar teaching model is implemented in Zurich, Berlin and London dental schools. This model, has several advantages, including teamwork training, educating for efficiency, patients' time saving, involvement in more clinical cases, and work force (teachers) saving. Based on feedback from our teachers and students, starting the next academic year, junior students will be paired with senior students in the same clinic, having further advantage of peer tutoring.

An additional step in changing our clinical model, is that students' clinical experience and tutoring will no longer follow the university-structured semester schedule. Students clinics will operate continuously without a summer break for 12 months, throughout the year.

We are considering adopting the peer based tutoring concept also, for post-graduate clinical teaching, allowing an increase in number of residents and using the existing clinical staff.

These educational restructurings will allow us to significantly increase the number of DMD students, as well as post graduate residences, and it is yet another step forward for gaining financial stability for the School.

### DIGITAL DENTISTRY

Many universities are implementing digital dentistry in the undergraduate curriculum at various levels. The significantly matured technology has now reached the level of routine use in many clinics, therefore we decided to be the first Dental School, to fully implement digital technology in the undergraduate student curriculum. We have started to implement CAD/CAM technologies in the patients' clinics of the under-graduate as a first treatment choice. Traditional dental technologies will be taught and practiced only in the senior clinical year and will remain second treatment choice, as we believe it should be.

The teaching staff, at TAUSDM, is dedicated to implement digital dentistry.

The TAUSDM will position itself as a national and





## MESSAGE FROM THE HEAD OF THE SCHOOL

international center of excellence in digital dentistry, leading the implementation of novel technologies in the dental community.

Implementing digital technologies will lead to significant R&D opportunities, for the TAUSDM staff as well as for companies involved.

### THE SPECIAL CARE CENTER

One of the founding principles on which the Maurice and Gabriela Goldschleger School of Dental Medicine was built is that everyone should have access to excellent dental care. With the opening of our Special Care Center that principle will be put into practice. Working in collaboration with voluntary organizations "Ale", "Shalva", "Alut", and "Akim" the Center will provide essential and often complex dental treatment for some of Israel's most vulnerable populations. Access to specialized dental treatments for the special needs population will have a major positive impact not only on the patients themselves, but also on their families.

Supervised by Pediatric Dentistry, Oral Medicine, Behavioral Sciences and Oral Surgery teachers, the Special Care Center will also allow senior students, young dentists, and residents to gain unique and valuable expertise working with the special needs populations. The Special Care Center will be inaugurated during the coming Board of Governors meeting in May 2017.

### BACKING OUR FACULTY MEMBERS AND TEACHERS

Until not long ago, our School's existence was uncertain. Misconception of health and higher education policy led to the major crisis. We are proud to inform that all parties involved finally acknowledged the importance and flourishing of the Dental school. As part as our new relationship with both MALAG (The Board of Higher Education) and the University authorities, and after prolonged negotiations, the teachers, dentists of the staff,

got an average salary raise of over 26%, which mirrors salaries of other faculties at Tel Aviv University. In the background of this significant and unprecedented raise, is the overall reorganization and restructuring of the curriculum. We have leveraged the past crisis and used it as a unique opportunity to trigger reorganization, changes and growth.

### A COMMITMENT TO SCIENCE

The Save Israel's Smile Campaign will fund the establishment of new labs for basic research – a significant addition to the two existing labs, headed by outstanding, newly-recruited investigators, which are already under construction. The expanded Research Institute will grow the knowledge base, and generate both innovation and grant-based income. The heads of the laboratories will also teach basic science courses to dental students – services currently "purchased" from the nearby Sackler Medical School.

We are experiencing an exciting era where we are standing on the verge of a leap into 21st century contemporary dental medicine. I am optimistic, and I have the deepest faith in our faculty. Together we will lead the School to become one of the top Dental Schools in the world.



## OPENING UP TO THE COMMUNITY

### DEPARTMENT OF PEDIATRIC DENTISTRY

# EXAMINING CHILDREN WITH TYPE 1 DIABETES IN ASAF HAROFEH AND WOLFSON HOSPITALS

Type 1 diabetes is one of the most common chronic diseases in childhood and a steady increase in its incidence is documented worldwide. Oral health complications, such as periodontal disease, are well known among patients with type 2 diabetes. Only limited evidence is available regarding dental caries, periodontal disease and oral health maintenance habits in young children with type 1 diabetes.

In order to encourage oral and dental health knowledge among children with type 1 diabetes and their parents, a day of oral and dental health was held in two hospitals in the vicinity of Tel Aviv, Asaf Harofeh Hospital in Beer Yaakov, and Wolfson Medical Center in Holon. The project was initiated by Dr. Sigalit Blumer and Prof. Benjamin Peretz from the Department of Pediatric Dentistry at the TAUSDM, and Dr. Zohar Landau, director of the Pediatric Diabetes Unit at the Wolfson Medical Center. During these events, the children, their parents and siblings were given health education instruction. The children underwent dental examination and their saliva was collected in

order to better understand the oral characteristics of type 1 diabetes. The project was scientifically approved by the Ethical Committee of the Wolfson Medical Center, and supported by the Head of the TAUSDM, prof. Ervin Weiss.



*Dr. Sigalit Blumer and Prof. Benjamin Peretz during the happening at the Wolfson Medical Center.*



*Dr. Sigalit Blumer, Dr. Zohar Landau and post graduate students of the Department of Pediatric Dentistry during the happening.*



*Post graduate students of the Department of Pediatric Dentistry instruct a child and collect saliva.*



## OPENING UP TO THE COMMUNITY

# JEWISH DENTAL MISSION TO UGANDA

Alpha Omega was founded over 110 years ago espousing vision, mission and values, promoting the commitment, integrity, family, global oral health, education and the bonds of fraternity.

Bearing this in mind, it was only natural that when the head of TAU Dental School received a request from Jeff Goldsmith, founder of Durham North Carolina AO Chapter, to help recruit 2 volunteer dentists to join his mission, his response was positive and enthusiastic.

During the summer a dental mission trip to Mbale, Uganda was arranged providing free dental care to the Jewish Abayudaya community. (A mission led by David Abramowitz from South Carolina in memory of his late father, Burton Abramowitz).

Dr. Alona Emodi-Perlman and Dr. Guy Melamed, both of the Oral Rehabilitation Department, volunteered to represent the School.

The Abayudaya Jewish Community is a 100-year-old community of nearly 2000 Jews who live among their Christian and Muslim neighbors in scattered villages in the fertile green hills of Eastern Uganda.

The Abayudaya, whose tribal name means "people of Judah" trace

their Jewish origins to the twentieth century. The Abayudaya began their journey to Judaism under the leadership of Semi Kakungulu, a powerful leader who was selected to be a Christian missionary for the British. However, Kakungulu favored the Hebrew Bible and in 1919 the community began practicing Judaism. After Kakungulu's death in 1928, some members drifted away. In 1971, Idi Amin Dada came to power, and banned Jewish practice. Many in the community were forced to convert to other religions. After the fall of Amin in 1979, the remnants of the Abayudaya community gathered to rebuild the community. Rabbi Gershom Sizomu, (now Member of Parliament) grandson of community elder "Rabbi" Samson from Nabagoye village gathered what was left of the Abayudaya community.

Even though the Abayudaya regard themselves as Jews, they realized that their isolation from the Jewish world was







## OPENING UP TO THE COMMUNITY

both dangerous and an obstacle to gaining a deeper understanding of Judaism. Beginning in the spring of 2002, at the community's request, conservative rabbis joined Rabbi Sizomu in supervising the conversion which was completed last year when the Abayudaya gained their formal recognition by the state of Israel.

The oral health needs in this region are extensive but the access to care is scarce. For many, this mission is their only opportunity to address their dental needs.

During the dental mission a fully equipped mobile dental delivery system, consisting of 4 portable dental chairs and a portable digital X-ray, were placed at the Hadassah Primary School in front of the new synagogue. 5 volunteer dentists from the USA, Uganda and Tel-Aviv worked around the clock providing 130 patients, the youngest being 5 years old and the oldest 94 years of age, with the most up-to-date treatment possible, at the value of over \$ 25,000. For a week the members of the mission worked

from sun set till dawn stopping only to pass the Shabbat among the villagers, reading de Torah in Hebrew in the synagogue. As our 2 volunteers said when they returned "it was extremely special to be part of the Abayudaya Jewish community, and we will remember this till the rest of our lives". Last but not least we would like to take this opportunity to thank the companies: GC ISRAEL, and 3M donating dental materials and supplies for this mission.





## OPENING UP TO THE COMMUNITY

DEPARTMENT OF PEDIATRIC DENTISTRY

# COMMUNITY ACTIVITIES IN THE CITY OF TEL AVIV: DENTAL HEALTH EDUCATION WORKSHOPS IN “KOMEMIUT” SCHOOL IN B’NEI BRAK

The Department of Pediatric Dentistry at the Tel Aviv University School of Dental Medicine puts special emphasis on community activities. We strongly believe that clinical education must be accompanied by working with and for the community, and by getting out of the University premises to be involved in the community. We have traditionally integrated this mission into the curriculum of our undergraduate and postgraduate students. We believe we have to teach children and caregivers to keep the children’s teeth clean and healthy.

As a part of this mission, the postgraduate students and the senior staff of the Department of Pediatric Dentistry (Prof. Benjamin Peretz and Dr. Sigalit Blumer), and students and staff of the dental Hygiene course (Dr. Adar Mann and Mrs. Shirly Sevilla), supported by the Head of the School, Prof. Ervin Weiss, and “Tovnot B’eHinuch”



*Dr. Sigalit Blumer and Prof. Benjamin Peretz supervising dental examination carried out by post-graduate dental students.*







## OPENING UP TO THE COMMUNITY

(headed by Karen Tal, Mira Meital and Orly Chen), initiated a “dental health education” project at the “Komemiut” elementary school, which is located in B’nei Brak. The school is a model for integration of children of various origins: there are Israeli children, along with children of foreign workers, immigrant children along with native Israelis. Most children come from a low socio-economic environment, broken single-parent families, where mothers leave to work early in the morning and return home late in the evening. During those hours, the children remain in the school premises,

thus the school is a real community center for them.

Dental health education lessons were provided to the children of the second grade via presentations and individual explanations about dental health, the importance of keeping clean teeth, and that a good diet for good dental health is recommended. Then every child underwent a dental examination; children with caries were identified and were offered free dental care at the TAUSDM. Toothbrushes and toothpastes were distributed to the children.

This ongoing project is much

appreciated by the Komemiut school staff and the children.. The project is planned to be part of the Department of Pediatric Dentistry’s routine activities in the years to come.



The TAUSDM staff in the courtyard of the Komemiut elementary school.





## NEW BEGINNINGS

# NEW CURRICULUM CONTENTS

As per decision of the curriculum authority of the Dental School, and following agreement by the Medical School, for the first time students of the medical school will start learning contents of oral health. The first course in which our contents will be installed is: "Advancement of healthy life

habits" which will be taught at the 2<sup>nd</sup> year medical students. This course is organized by Prof. Dankner and Dr. Wolf from the School of Medicine and Prof. Pilo who is the Head of the Curriculum authority of the School of Dental Medicine. The topics of oral health to be studied are mainly risk

factors and prevention of caries and periodontal disease, as well as the link between general health and oral health. The lecturers from our School will be Prof. Tal and Dr. Dekel. Extra contents will be integrated in to other courses; for example: TMD disorders and headaches.

# A NEW JOINT VENTURE IN OUR SCHOOL

In a twist of fate, a joint venture was recently established between the Dental School at TAU and Clalit Smile- Shila, a subsidiary company of Clalit Medical Services.

It was Clalit Medical Services (or in its previous name Kupat Holim Clalit) that was the strategic partner that together with Tel Aviv University established and sponsored the Dental School at its initial years.

Today Shila has 100 dental clinics operating all over Israel, from Eilat at the banks of the Red Sea to Kiryat Shmonah at the north.

A new Clalit Smile dental clinic was recently established on the Dental School premises, as part of the dental school intramural services. The dentists employed in the new clinic are faculty members who combine they work at Clalit Smile

with teaching at the Dental School.

It is a win-win situation to all sides; the School extends its sources of income and Clalit Smile gains excellent staff. Clalit Smile provides its expertise in managing dental clinics and its one million of patients per year (out of the 4.3 million members in the Clalit sick fund) while the Dental School brings to the project high scientific and clinical knowledge and excellent reputation.

Hopefully, this clinic will thrive and grow from success to success and with time take over the School's entire intramural service .



from left: Dr. Slutzki, Mr. Schleifer, Mr. Kohen & Prof. Weiss.



# THE SPECIAL CARE CENTER AT THE GOLDSCHLEGER SCHOOL OF DENTAL MEDICINE, TEL AVIV UNIVERSITY

In many occasions, the burden of oral disease, and its devastating cost to families and societies, is still underestimated. Oral diseases are among the most common chronic diseases. It is the fourth most expensive disease to treat in the world. Dental caries affects most adults and children, periodontitis is the major cause for tooth loss globally, and oral cancer is the 8<sup>th</sup> most common and most costly cancer to treat.

Our vision, as an Israeli Dental School, includes work towards meeting the increasing need and demand for oral healthcare in Israel. The recently completed Special Care Center at our School is aiming exactly at that, to supply high level dental care to patients who are unable to get proper treatment elsewhere, children and adults alike.

The modern Special Care Center includes two sections: in the first section, nine modern dental units are allocated to the treatment of children and adults with special needs. The second section includes an oral surgery ward with two modern operating theaters, ready

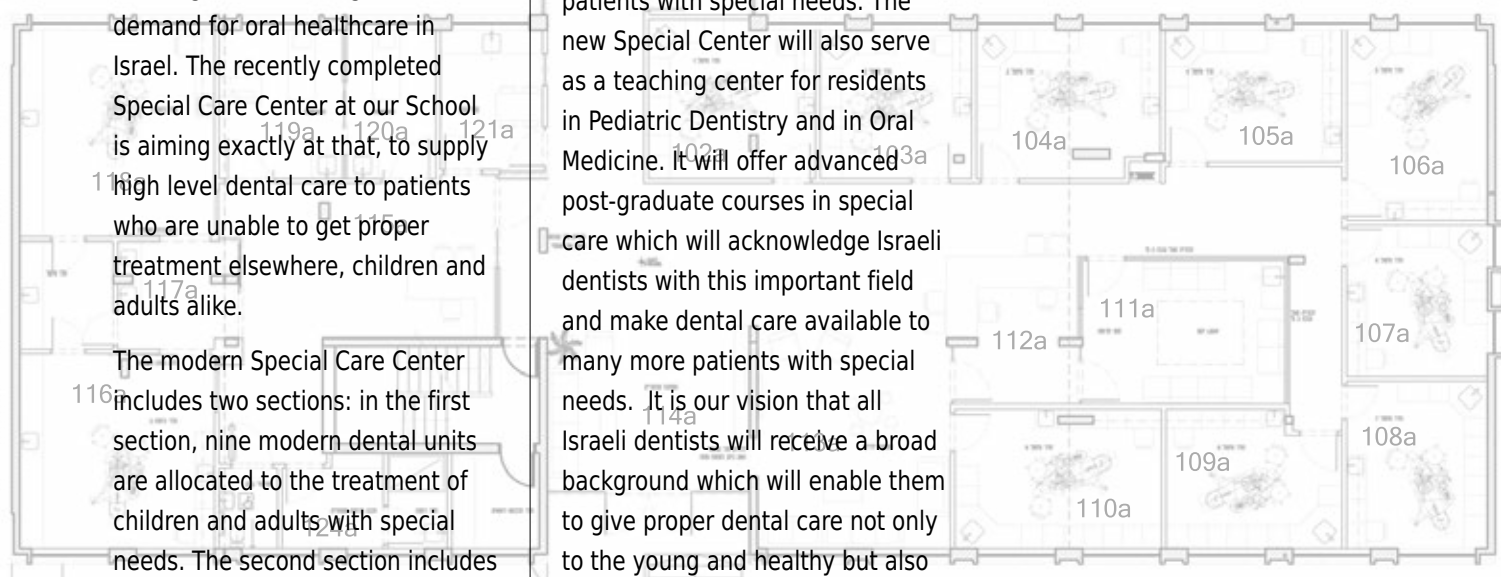
to treat patients under general anesthesia.

Beside children, the Center will provide dental care to patients with systemic diseases, subjects suffering from chronic orofacial pain, subjects with behavioral problems such as dental anxiety, excessive gag reflex, intellectually disabled individuals and many others.

As dental educators we believe that it is our responsibility to educate new generations of dentists who know how to treat patients with special needs. The new Special Center will also serve as a teaching center for residents in Pediatric Dentistry and in Oral Medicine. It will offer advanced post-graduate courses in special care which will acknowledge Israeli dentists with this important field and make dental care available to many more patients with special needs. It is our vision that all Israeli dentists will receive a broad background which will enable them to give proper dental care not only to the young and healthy but also to the aged, sick and needy. This way, the new facility will provide

not only better care to those who are in the greatest need of it but also serve as an excellent teaching facility which will influence for the better the lives of many patients.

The construction of this modern, state-of-art, Center was enabled by generous gifts from numerous Alpha Omega Fraters worldwide and through the support of Henry Schein Inc., and the Alpha Omega Foundation USA. We are grateful to all of you for your support!







# DEPARTMENT OF ORAL PATHOLOGY AND ORAL MEDICINE

It has been a long tradition of the Department to organize the annual meetings of the Clinico-Pathological Correlations (CPC) aimed to bring together specialists and trainees from all over the country in the fields of oral medicine, oral pathology and oral and maxillofacial surgery. Unfortunately, this tradition was interrupted during the period when the School was in danger of closure. As we successfully passed those “grey” days and have entered an era of renewal, the CPC tradition has been revived. The first meeting was attended by about 50 participants, their number doubled at the next meeting, and during the most recent meeting (January

2016) the auditorium of the School was too small to contain the entire audience. This is the best evidence that our Department has regained its central role in national scientific events, and participants from allied disciplines come to present unique, interesting and challenging cases, discuss diagnostic issues and exchange opinions on treatment approaches based on cutting edge knowledge and information.

The relations between our Department and the Department of Oral Medicine, Sedation and Oral Radiology at Hadassah Medical Center in Jerusalem have become closer during the recent years. The Heads of these departments, Prof.

Marilena Vered and Prof. Doron Aframian, both graduated from the Faculty of Dentistry, Hadassah Medical Center in Jerusalem almost 25 years ago, and since then they have accompanied each other along their professional roads. Their friendship is reflected by inter-department collaborations on both scientific and social levels. The Tel Aviv Department hosted the Department from Jerusalem at an event that took place at the end of the school year, which was sponsored by Super-Pharm, Israel.

During September, members of the department participated for the first time in the event of “Special Olympics” organized at the Wingate Sports Training Center. We are proud to be part of a global organization with programs in 170 countries! The contesters in various sports were youngsters with special needs. In-between competitions they were given

check-ups by physiotherapists and ENT physicians. Their oral health status was assessed by residents and senior staff from our Department, where the oral cavity and dentition have given a full screening. Everybody had a big smile on the face!

By the end of 2016, the Oral Medicine clinics will move to a

renovated wing, where we will develop the Clinics of Special Care for adults as well as the field of sedation. We hope that the coming year will provide more collaboration, new opportunities for research, expansions in teaching and additional leading-edge activities in our Department.





## EVENTS

# ORAL HYGIENE DAY- TEL AVIV UNIVERSITY

On May 23<sup>rd</sup>, 2016 the Maurice and Gabriela Goldschleger School of Dental Medicine dedicated a day on to oral health and to oral hygiene and invited all the staff, students and visitors in Tel Aviv University to take part in it.

Teams of students in the dental hygienists and graduate dentistry programs and members of the School's staff all took part in this important activity. Brochures and ads were visible and handed out around the university.

The various activities offered throughout the day were conducted in the school clinics and in the lobby. Visitors were welcomed by oral hygiene students who provided a short training of

proper oral hygiene maintenance and further suggested different opportunities for dental treatment at the school.

Primary dental examinations were conducted for many of the visitors. Recommendations regarding the continuation of treatment were given.

We will continue this important activity next year, making it a tradition and another part of the service to the community given at our school.





## EVENTS

# OPEN DAY

On February 5, 2016, an open day event was held for candidates interested in studying dentistry in the coming year.

This event attracted over 300 potential candidates, who were greeted by the secretary of the student body, Mrs. Nili Germanov, and a representative from the Students Admissions Council who supplied information brochures specially printed for this day.

A formal gathering of interested candidates was held in the main

lecture hall. The academic syllabus of dental studies and research was presented.

A number of short presentations by the following leading faculty members followed :

Professor Ervin Weis (Head of Dental School), Professor Raphael Pilo (Chairman of the Curriculum Committee), Professor Tamar Brosh (Chairman of the Research Committee), Professor Benjamin Peretz (Chairman of Student Admission Committee), Dr. Eran

Dolev ( Coordinator of Student Admission Committee) Dr Ephraim Winocur (Chairman of the Teachers Committee for Dental Students Affairs) and Michal Almogi (6<sup>th</sup> year student). Dr. Rachel Sarig presented an interesting research carried out at the Dental School.

The day was completed by a guided tour of the Dental School presenting clinical work stations and research laboratories.





# FREEMASONS ORGANIZATION SCHOLARSHIP

On 10/3/2016 the Freemasons organization, a fellowship order that believes in the promotion of ideals of social solidarity, mutual assistance, charity and morality, extended 12 scholarships to students from the scholarship fund in the name of the late Mordechai Geltzer.

The scholarships were granted by the Aviv 10 Chamber of Freemasons in Tel Aviv in a ceremony full of majestic splendor.

Out of the 12 scholarships, two in the sum of NIS 2500 each, were granted to students studying at the Tel Aviv School of Dentistry. The students were chosen by the Scholarships Committee

of the school, headed by Dr. Efraim Winocur. The criteria were excellency in studies and economic needs.

The remaining scholarships were distributed to needy students from the Ethiopian community. These students were chosen by a committee headed by the Deputy Mayor of Tel Aviv -Ms. Maharta Baruch.

The Presidency was composed of the First Commissioner of the Grand Lodge- Mr. Ilan Segev, the President of the Aviv Chamber - Mr. Moshe Slav, the Chairman of the scholarships fund -Dr. Zeev Feldbrin and past presidents of the Aviv Chamber.

There were speeches by the Deputy Mayor of Tel Aviv, Ms. Maharta Baruch and by fraters of the Aviv Chamber. Prior to the ceremony a sumptuous meal was served.

Dr. Winocur, who attended the ceremony, thanked the fraters of the order for their blessed activity. He stressed the fact that dental studies are very demanding and require many hours of attendance at the university, and this does not allow needy students to work for their living.





# THE LANDE SCHOLARSHIP

### **Student scholarships for complex treatments of disadvantaged patients - the Landa Fund**

The Scholarship was set to allow students/residents of dentistry to carry out complex and quite expensive prosthodontic treatments for patients who are unable to bear the cost of the treatment.

The scholarship will be available to fifth and sixth year students/residents of prosthodontic dentistry. In the framework of the request, the student will submit an approved treatment plan and official price quotation for carrying out the treatment in the framework of the School, as well as confirmation (from the welfare authorities) testifying to the patient's inability to pay the costs.

### **Scholarships for residents of prosthodontic dentistry**

The scholarship was set in order to grant the opportunity to outstanding dentists, graduates of the School of Dentistry at Tel Aviv University, of a social background that does not allow them to pay the high tuition fees of specialization studies (NIS 80,000 a year for 4 years), to take part in the

specialization studies in the line of prosthodontic dentistry at the School.

The scholarship will be available to graduates of the School of Dentistry of Tel Aviv University, 5 years prior to submission of the request. Outstanding graduates of dental studies at the School of Dentistry at Tel Aviv University may submit the request for a scholarship on condition they rank among the top ten students of their DMD class.

Priority will be given to students from peripheral communities in the Negev or the Galilee and to students after military or national service.

### **Scholarships for MSc or Doctoral degree in Prosthodontic dentistry:**

Scholarships for a student studying in the framework of MSc degree with a thesis, or PhD, in the line of prosthodontic dentistry.

The scholarship will be available to students/residents of prosthodontic dentistry at the School who simultaneously with specialization studies also study in the framework of MSc with thesis or PhD degrees.

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## **Continuing supporting our students are also the following funds.**

- ▶ The Mijiritsky Scholarship.
- ▶ The Merdinger Scholarship
- ▶ The AO scholarship







## VISITORS

# MANY FRIENDS AND SUPPORTERS VISITED US DURING LAST YEAR



*Dr. Andre Amiach & Dr. Ilana Amor, from France*



*Robert and his parents Rada Sumareva & Gene Ukrainsky planting tree for his Bar Mitzva*



*Dr. Rada Sumareva and her family from NYC*







## RESEARCH ACTIVITIES

# VISIT TO TARBAN-TRARBACH DR. BJORN LUDWIG

In June 2016, members of the Orthodontic Department of Tel Aviv University attended one of the final hands-on teaching courses given by Dr. Björn Ludwig. Dr. Ludwig is a world-renowned pioneer on the subject of cortical anchorage. He has authored many papers and several books on the clinical applications of miniscrews/miniplates as part of the modern orthodontic armamentarium. This

course was presented in the facility housing both his private practice and an in-house laboratory.

Dr. Ludwig focused on the use of these devices as a method to improve biomechanics in order to more predictably control difficult finishing procedures. He emphasized the contribution of incorporating these implements in addressing the esthetics of

congenitally missing maxillary permanent lateral incisors, including management of the hard and soft tissues and the reshaping of canines by composite resins or veneer crowns. In addition, he presented the rational and methodology for the use of corticotomy in single molar gap closure.

Dr. Ludwig lives and works in





# RESEARCH ACTIVITIES

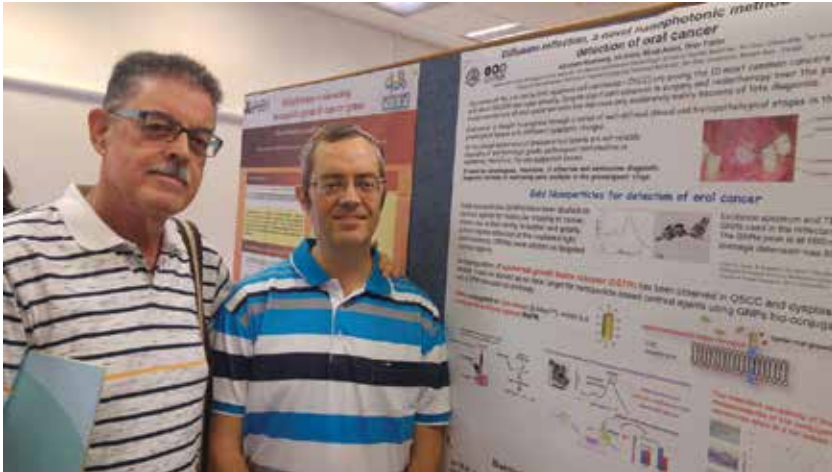
Traben-Trarbach, Germany. These twin towns are located in the valley of the Middle Moselle River, dominated by Mont Royal atop which are the ruins of an ancient fortress that offer a spectacular view of the area. This region is famous for its excellent Riesling wines, the vineyards of which cover nearly all the slopes of the hills making up this lush, green, sleepy municipality. Our hosts were kind enough to have us visit a few old family-run wineries, to sample some of their wines and taste some of their delicacies. This added a special flavor to the intellectual aspect of our visit.

Our visit to Dr. Ludwig as a group was beneficial both on an academic and social level. We were able to interact in an environment outside of our didactic activities, which catalyzed discussions about current and future research projects, the ways in which we teach our post-doctoral residents, and the inclusion of more technological tools to facilitate this. We also gained a greater appreciation of each other on a personal level.



## RESEARCH ACTIVITIES

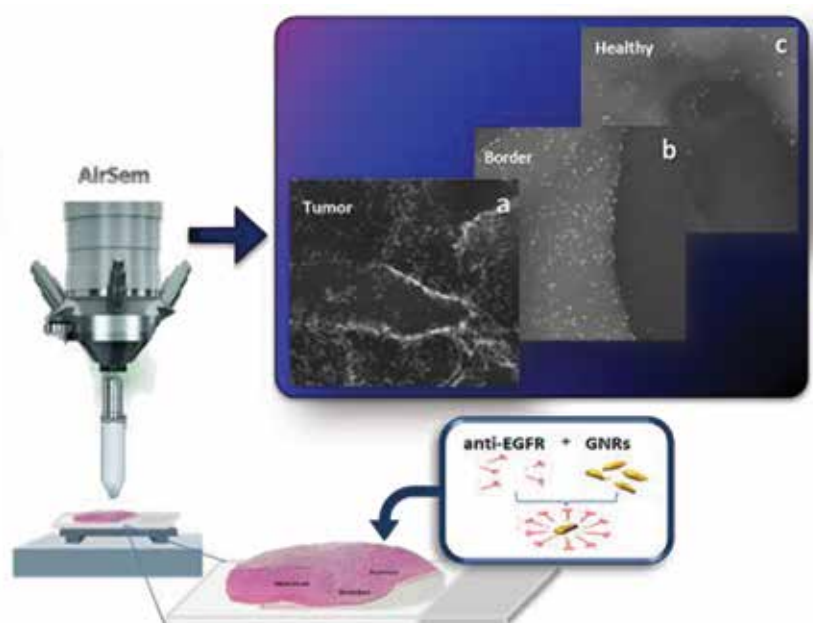
### A NEW NANOPHOTONIC METHOD FOR CANCER DETECTION



Prof Avraham Hirshberg from our School together with Dr. Dror Fixler from the Faculty of Engineering and the Institute of Nanotechnology at Bar Ilan University introduced a new nanophotonic method for cancer detection based on diffusion reflection (DR) measurement of gold nanorods (GNRs) bio-conjugated to monoclonal antibody against Epidermal Growth Factor Receptor (EGFR). Once the bio-conjugated GNRs attached to oral cancer cells they can be detected following excitation. The method has been investigated in a rat model of oral cancer (published in JDR). In a second study (published recently in ACSNano one of the leading journals in the area of nanotechnology), the distribution of EGFR bio conjugated GNRs in human oral cancer was evaluated. Air-scanning electron microscopy was used to visualize the nanoparticles in the tissue; a gradient in the distribution of the gold-nano-rods from the tumor

to normal epithelium was found, a spread in an area of  $\sim 1\text{mm}$ . These studies demonstrate the power of the method in detecting carcinomatous changes and accurate precise determining of the surgical margins.

The research was financed by the Israel Cancer Association (2014), and this year.





# UNIQUE GENETIC PROFILE FOR RISK STRATIFICATION OF PATIENTS ON BISPHOSPHONATES

**Dr. Noam Yarom**, of the Department of Oral Pathology and Oral Medicine, in collaboration with **Prof. Joseph Katz** from the Department of Oral Medicine of the College of Dentistry at the University of Florida, and scientists from **Micromedic Technologies Ltd.**, have identified a unique genetic profile to stratify the risk of patients treated with bisphosphonates to develop osteonecrosis of the jaw (ONJ).

As the triggering event is usually dental surgery, it is critical to evaluate the risk of ONJ in osteoporosis or cancer patients treated with bisphosphonates before starting dental treatment. However, to date, there is no reliable assay to predict this risk.

In order to address this deficiency, Dr. Yarom and his colleagues have used full-exome sequencing and bioinformatics analysis to identify a list of single nucleotide polymorphisms (SNPs) associated with ONJ. 125 patients receiving bisphosphonates because of multiple myeloma or other cancers were included in this study, of these 69 patients had ONJ and 56

were disease-free for at least two years.

This study led to the identification of 19 SNPs, some of which reside in genes whose biological function is concomitant with a presumptive molecular etiology of ONJ. These SNPs, discovered on one set and tested on an independent set, were combined to create a predicting algorithm. This predictor yielded a strong separation between ONJ cases and non-ONJ controls, featuring 93% sensitivity among cancer patients who developed ONJ, and 68% specificity among ONJ-free cancer patients.

Dr. Yarom presented the results of this study at the annual meeting of the American Academy of Oral Medicine earlier this year and received a very positive feedback from the Oral Medicine community. This approach, in which patient management is individualized by his/her genetic profile, is envisioned to reduce patient's morbidity, improve clinical outcome and lessen healthcare expenses, generating a tremendous impact on both patients and clinicians.



## RESEARCH ACTIVITIES

# INTERVENTION MODEL FOR THE IMPROVEMENT OF FINE MOTOR SKILLS AMONG STUDENTS OF DENTAL MEDICINE IN PRE-CLINICAL STUDIES

**Research query:** will intervention with an innovative mobile model lead to improvement of the students' fine motor skills and thus improve the clinical skills required in the course of their studies.

As part of the study program at the Dental Medicine Faculty at Tel Aviv University, in the course of the 4<sup>th</sup> year, the students carry out practical training in which they carry out exercises via a conventional dental simulator (hereunder: "phantom"), which simulates execution of various dental actions in the patient's mouth. Success in the course constitutes a pre-condition for moving on to the 5<sup>th</sup> year, Regrettably, some students fail the test.

In an attempt to predict and increase the percentage of success of the students in this course, Dr. Diva Logasi, a PhD student, carries out a study under the guidance of Prof. Tamar Brosh and Prof. Rafael Pilo, with the participation of Dr.

Gal Rozen and Mr. Avi Meiorowitz from the Dental School, Dr. Yipi Lebanon of the Department of Occupational Therapy and Drs. Gabor Kusha and Yossi Kamir of the Engineering Department at Tel Aviv University.

In the first stage of the study 4<sup>th</sup> year dental students were examined in fine motor skills tests in two consecutive years (2015, 2016). It was found that these tests are indeed suitable for predicting the success potential of the students in the course. One of the focuses of the research, is carrying out the fine motor skills tests via a mirror, which simulates the manner of the exercise in the course in a more accurate way.

In the second stage, expected to be carried out next year, clinical research intervention will be carried out in which the students will be provided with training kits with which they will be able to train fine motor skills beyond study hours in addition to regular training on the phantom and thus improve

the clinical skills required in the course of the studies.

The main interim conclusions are that in fine motor skills existing in the line of occupational therapy, it is possible to predict the success potential of students in the phantom course more accurately.

Apparently, the motor skills tests are sensitive to the students' improvement in manual skills namely, one motor task training (phantom) causes improvement in another motor skills training (motor skills test).



## ACADEMIC PROMOTIONS



**Dr. Lihi Adler  
Abramovich**

Was promoted  
to the rank of  
Senior Lecturer  
In Oral Biology



**Dr. Shifra  
Levartovsky**

Was promoted  
to the rank of  
Lecturer in Oral  
Rehabilitation



**Dr. Amir  
Shoster**

was promoted  
to the rank of  
Clinical Lecturer



**Dr. Eran  
Dolev**

Was promoted  
to the rank  
of Clinical  
Lecturer in Oral  
Rehabilitation.



**Dr. Evgeny  
Weinberger**

Was promoted  
to the rank  
of Lecturer in  
Periodontology



**Dr. Alona  
Emodi-  
Perlman**

Was promoted  
to the rank of  
Lecturer in Oral  
Rehabilitation



**Prof. Tamar  
Brosh**

Was promoted  
to the rank of  
Full Professor  
in Dental  
Biotechnology



### **PROFESSOR ANDREW EDER NOMINATED AS VISITING PROFESSOR AT THE SCHOOL OF DENTAL MEDICINE AT TAU**

Professor Andrew Eder, from the UCL Eastman Dental Institute in London, England, has been recently nominated as a visiting Professor at the School of Dental Medicine at TAU.

Professor Eder is one of the most senior clinicians and researchers in the field of Restorative Dentistry with a special expertise in tooth wear.

As a Specialist in Restorative Dentistry and Prosthodontics, Professor Eder is Clinical Director of Specialist Dental Care and The London Tooth Wear Centre in London.

Andrew Eder is Professor of Restorative Dentistry and Dental Education at the UCL Eastman Dental Institute and Pro-Vice-Provost and Director of Life Learning at UCL. He also serves as an Honorary Consultant in Restorative Dentistry at UCLH NHS Foundation Trust.

Professor Eder's joining our School is a great contribution to our research and teaching.

## OUTSTANDING WORKERS

During Passover celebration, we distributed certificates to three workers for their admirable job.

The selected employees for this year were:



**Ahuva Abarbanel**



**Niveen Abdelhai**



**Karmit Maoz**



## RETIREEES

### CHANGE OF GUARDS AT THE DEPARTMENT OF ORAL REHABILITATION (PROSTHODONTICS)



As of October 2016, **Prof. David Kohavi** has retired as the Head of the Department of Oral Rehabilitation

at our School. **Prof. Kohavi**, a graduate of the Dental School of the Hebrew University in Jerusalem and a graduate of the specialization programs of oral rehabilitation and periodontics at the University of Pennsylvania, Philadelphia, USA, established and managed the specialization program at the restorative dentistry department of the Hebrew University, was in charge of teaching the subject of dental implants and managed the center of implants and later on the restoration on implants unit of the Hebrew University and Hadassa.

**Prof. Kohavi** joined the School of Dental Medicine at TAU at 2012 and served as the Head of the

Department of Oral Rehabilitation between the years of 2012-2016. Under his fruitful leadership the Department profoundly developed its teaching abilities and its research achievements and many department members were granted senior academic nominations. Thank you **Prof. Kohavi** for your great contribution to the Department and the School!



A new Head of Department, **Dr. Zeev Ormianer**, was elected and stepped into the position with great plans and enthusiasm.

**Dr. Haim Baharav** from the Department of Oral Rehabilitation recently retired after numerous year devoted to dental Students.

### CONGRATULATIONS TO MRS. MARY BORISOVSKY ON HER RETIREMENT.

Mary has been the Chief Dental Assistant at our School for 45 years. She joined the School at its very beginnings, followed its development through over 4

decades and was responsible of the growing staff of dental assistants who work at the various clinics of the Dental School. Thank you Mary for your contribution!

### 35 YEARS OF FRUITFUL ACTIVITY

**Ahuva Abarbanel**, who has been in charge of manpower and academic teachers, retired after 35 years of fruitful activity at our School.

Ahuva has always been responsive to all staff members, administrative and academic faculty alike. Always

helpful, patient, efficient and collaborative, Ahuva was deeply appreciated by all. Thank you Ahuva for years of devotion and excellent work!

Following Ahuva's retirement, our staff was joined by Galia Brezniak. Welcome Galia!

## SECOND TERM JOBS

Several Heads of Departments have been recently nominated for a second term in their jobs:

**Prof. Marilena Vered** is the continuing Head of the Department of Oral Medicine and Oral Pathology, **Prof. Tamar Brosh** is the continuing Head of the Department of Oral Biology and **Dr. Anda Kfir** is the continuing Head of the Department of Endodontology .

## NEW WORKERS



### **Galia Breznick**

Secretary of Teaching Personnel and Human Resources

#### **Education:**

M.A in Labor Studies, Tel Aviv University

B.A in Sociology and Anthropology, Tel Aviv University

#### **Professional Experience:**

2011-2016- Human Resources Coordinator- Human Resources Division Tel Aviv University

2011- 2008- Attendance Secretary- Human Resources Division Tel Aviv University



### **Orit Avisar**

#### **Education:**

MBA in Business

administration- finance,

Tel Aviv University

B.A in Economy, Tel Aviv University

#### **Professional Experience:**

1995-2013- main economist - NAAMAT org.

1990- 1995- Economist- ICIC



## A DAY OUT OF SCHOOL

# A DAY OFF AT EMEK HAMAAYANOT

This year the administrative staff had a one day trip to Emek Hamaayanot (Valley of Springs)

Emek Hamaayanot extends from the Jordan Valley in the north to Nahal Bazak in the south, from the Gilboa in the west, to the Jordan river in the east; it is one of Israel's most unique and beautiful gems of nature. The city of Beit Shean lies in the center of the territory, but is an independent municipality.

The plentiful springs (about 40), have brought settlers to the valley throughout the course of human history. Archeological findings show there was a big settlement already at the time of the Roman Empire in the 1<sup>st</sup> and 2<sup>nd</sup> centuries. Several synagogues were found dating back to the time of the Second Temple. At the end of the 19<sup>th</sup> century there were no Jewish settlements in Beit Shean valley

which was inhabited by many Arab villages. At that time the village Beit Shean was a wealthy city, used by the Ottoman regime as a city district. The first Jewish settlement in the area dates to the years 30 and 40 of the 20<sup>th</sup> century most of them built in the Wall and Tower settlement system providing an economical anchor to the Jewish settlements in Israel. Since 1948, Beit Shean and the surrounding villages are part of Israel.

The valley's current population stands at 12,500 residents who live in mutual respect and tolerance in 24 settlements, 16 of which are kibbutzim (6 of which are religious kibbutzim), 6 moshavim (cooperative settlements), one moshava (agricultural colony) and a village for rehabilitation of victims of drug and alcohol abuse.

The visit started at the Park of Springs which features three of the region's most beautiful springs: Ein Shokek, Ein Moda and Hakibbutzim River. This well-kept park is open to the public free of charge. It is possible to get around the park by foot or in environment-friendly vehicles.

The park combines springs, rivers, fields, fishponds, bird's-eye lookout, water and historic and archaeological sites in an area opposite Mount Gilboa, which majestically reigns over it. Paved roads enable visitors to enjoy the natural surroundings without





## A DAY OUT OF SCHOOL

harming the plants or local wildlife.

There is also a 6 days walking trail which allows the hiker to change several climate zones while traveling. The valley of Beit Shean is unique for its location between the hot dry climate effects of the great Arab desert. Tirat Tzvi hold a world record for the highest temperature ever measured on earth: 54c. This weather makes the valley ideal for some reptiles, insects and plants to be found here in the northern area. During the wet season, most of the area is affected by the Mediterranean climate that brings about 200-3000 mm of rain and grows green layers that cover the area, changing it dramatically.







# A DAY OUT OF SCHOOL



The Great Rift Valley is also the main route for BIRD MIGRATION (500,000,000/year) between Europe and Africa. Therefore, most of the year you can meet a lot of bird species in great numbers.

After visiting the park we had lunch and then we returned to school.

A visit to the park is highly recommended for your next visit to Israel.





## THANK YOU FRIENDS

# A DENTAL OPERATORY DONATED BY THE AO LONDON CHARITABLE TRUST AND THE LANDES FAMILY

Recently, a generous donation was received by the AO London Charitable Trust and the Landes family to fund a dental operatory at the newly built Special Care Center at the TAU Dental School. The room will be dedicated in honour of Suzy and Emil Landes in recognition of their joint founding and long service to the Alpha Omega London Chapter and Trust.

Emil was sixteen years old in 1948 when Ben Gurion declared the birth of the State of Israel. This event, together with his childhood experience of fleeing Vienna with his dentist father and mother ten years previously, has motivated him in his efforts in support of dental health and education in Israel, having worked and been active in dental clinics of Youth Aliyah, and in Projects Renewal in cities like Ashkelon. Suzy and Emil are honoured to support both dental schools in Israel.

Alpha Omega was the perfect vehicle to further his and his wife Suzy's aspirations and a natural follow on from his position of Secretary of the Dental Group of Friends of Hebrew University. Emil is a Past-President of the London Chapter of Alpha Omega, founder

treasurer of the London Chapter and Trust from 1969 until 1972 and has remained a Trustee until 2016.

Emil has also held international office in Alpha Omega, enabling him to initiate European Regency Conventions and other programmes and is holder of the Alpha Omega Meritorious Service Award.



*Emil and Suzy Landes with Prof. Weiss*







# THANK YOU FRIENDS



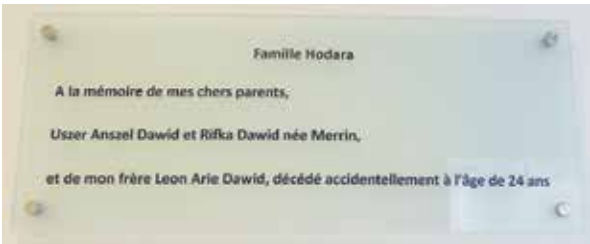
From left : Prof Ervin Weiss, Prof Francois Heilbornn, Michele Amiach, Dr. Andre Amiach, Dr. Wendy Spektor

As part of Dental School festivities the French Friends inaugurated of two treatment rooms for advanced dental training and patient care. The ceremony was moderated by Dr. Andr  Amiach.

The Hodara Family room was dedicated by Michele Amiach honoring his parents. Cattan room

was also dedicated.

French Friends President Prof. Fran ous Heilborn thanked Dr. Amiach and all donors for their efforts to revive the School and rebuild it over the last ten years.







## CELEBRATING ANNIVERSARY

# THE DENTAL SCHOOL CELEBRATES IT'S 40<sup>TH</sup> ANNIVERSARY

Dazzling celebrations for the 40<sup>th</sup> anniversary of TAU's Maurice and Gabriela Goldschleger School of Dental Medicine, were held on campus and attended by American and French Friends of Tel Aviv University, senior tau officials, and School faculty, students and alumni.

The party coincided with the launch of a 40 million \$, 5-year capital campaign, in support of the School.

Head of the School Prof. Ervin Weiss, said, "The campaign will

double our student population, implement a clinical curriculum based on high-tech digital dentistry, expand basic research and improve service to Israel's needy and underserved populations.

Tel Aviv University President Prof. Klafter noted the invaluable role played by the Alpha Omega International Dental Fraternity in its unwavering commitment to the Dental School over the last

four decades "Also speaking were former International President of the Alpha Omega International Dental Fraternity and TAU Governor, Dr. Ben Williamowsky; Alpha Omega President Dr. Wendy Spektor Director-General of the Ministry of Health, Prof. Arnon Afek, and TAU Dean of the Sackler Faculty of Medicine, Prof. Ehud Grossman.



from right : Prof. Joseph Klafter, President TAU and Prof. Ervin Weiss



Celebrating our 40<sup>th</sup> Anniversary  
**40**  
The Goldschleger School of  
Dental Medicine

Celebrating our 40<sup>th</sup> Anniversary of  
The Goldschleger School of Dental Medicine  
**Practicing Excellence**







## CELEBRATING ANNIVERSARY

**The Goldschleger School of Dental Medicine  
Celebrating 40 Years of Practicing Excellence**

**40**  
Celebrating our 40<sup>th</sup> Anniversary

**TEL AVIV UNIVERSITY**  
Pursuing the Unknown





*To make future smiles even brighter*



The Maurice and Gabriela Goldschleger  
School of Dental Medicine  
Founded by the Alpha Omega International Fraternity

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