



Summer 8-1-2012

Trident - August 2012

Arthur A. Dugoni School of Dentistry

Follow this and additional works at: <https://scholarlycommons.pacific.edu/trident>

Recommended Citation

Arthur A. Dugoni School of Dentistry, "Trident - August 2012" (2012). *Trident*. 3.
<https://scholarlycommons.pacific.edu/trident/3>

This Newsletter is brought to you for free and open access by the Arthur A. Dugoni School of Dentistry at Scholarly Commons. It has been accepted for inclusion in Trident by an authorized administrator of Scholarly Commons. For more information, please contact mgibney@pacific.edu.

PACIFIC ORTHODONTIC ALUMNI NEWSLETTER ARTHUR A. DUGONI SCHOOL OF DENTISTRY



Residents, alumni and faculty at the 2011 PCSO Alumni reception in Vancouver

PACIFIC ORTHODONTIC ALUMNI ASSOCIATION UPDATE

EDITORS

Jetson Lee
Shahram Nabipour

CONTRIBUTORS

Art Dugoni
Steven Dugoni
Hee Soo Oh
Jetson Lee
Marie Tolorova
Miroslav Tolar



Dr. Jetson Lee, Class of 1986 *Pacific Orthodontic Chapter Committee Chair*

Sorry it has been so long since our last newsletter, but it's official.... we are now formally known as the "Pacific Orthodontic Alumni Association," a chapter of the University of the Pacific Arthur A. Dugoni School of Dentistry Alumni Association. The Alumni Association Board of Directors voted and passed the motion approving this change last March.

The 25th Annual Frederick T. West Orthodontic Lectureship was held in conjunction with the 112th Annual Alumni meeting on Friday, March 4, 2011! While we had our own luncheon, participants were able to socialize with the rest of the dental school at the reception following the meeting. We received many positive comments about the format.

The lecture was a success with almost 80 attendees, which was nearly 30 more than the previous year's meeting and included a handful of doctors traveling from Washington State. Dr. Patrick Turley gave us a very informative and entertaining talk on "Early Facemask Therapy for Class III Malocclusions" in the morning followed by "Management of Traumatic Dental Injuries" after lunch.



Dr. Patrick Turley



Drs. Dong Heon Oh ('11), Heon Jae Cho ('89) and David Lee ('11) at the City Club



Dean Emeritus Arthur Dugoni was recognized for 60 years of service and Dr. Steven Dugoni ('81) for 30 years of service.

The Alumni Reception at the Annual AAO meeting in Chicago was held on Saturday, May 14, 2011 at the Sheraton Chicago Hotel & Towers. The Alumni Reception at the PCSO 75th Annual meeting in Vancouver was held on Friday, September 23rd, 2011.

The department held our first Dr. Arthur A. Dugoni Orthodontic Graduation Symposium and Dinner on Friday, September 16th, 2011. The day included the graduating residents presenting their research, a program with Dr. David Hatcher, and a dinner at the City Club of San Francisco. Dr. Heon Jae Cho, our previous program director, traveled all the way from South Korea to attend. Dr. Kimberly Mahood and Regina Carino both contributed tremendously to the success of the programs.



Drs. Jeong Rae Cho ('13), Harry Hatasaka and his wife Cyd, and Maybelle Gomez ('11)

Approximately 50 residents, faculty, staff, and family attended a Giants-Dodgers game at AT&T Park on Saturday, September 10, 2011. This year's department outing is a Giants-Rockies game on Friday, August 10. At the time the *Trident* went to press, about 60 people had signed up!



Drs. Ji Hyun Ahn ('13), Kimberly Mahood ('10), Julia our great assistant, and Abir Balghonaim ('12)



Dr. Maureen Valley and her family enjoying the game



Dr. Anoop Sondhi speaks to a packed house at the Fred West Lectureship

The 26th Annual Frederick T. West Orthodontic Lectureship was held as part of the Alumni Meeting on Friday, March 9th, 2012. Dr. Anoop Sondhi gave a wonderful talk, on “Variable Prescription Orthodontics”, focusing on clinical efficiency. There were more than 80 attendees with the room staying near capacity even after lunch! 3M Unitek generously sponsored the lecture. This year we were able to join the rest of the Alumni Association for lunch in the Grand Ballroom. Our very own Bob Boyd was one of three recipients of the Medallion of Distinction.

If you have suggestions for speakers you would like the committee to consider for the future, please contact me at orthojet@aol.com.



Dr. Robert Boyd receives the Medallion of Distinction from Alumni President Dr. Ariane Terlet and Dean Pat Ferrillo



Dr. Boyd, Dean Ferrillo, Dr. Maryse Aubert ('80) and Dr. Jetson Lee ('86) at the Alumni Reception



Drs. Jamison Wu ('06), Katherine Kieu ('12), Courtney Ray ('12), Lief Cobain ('05), Heesoo Oh ('05), and Shahram Nabipour ('05) enjoying a night at Bel Mateo Bowl

We hosted a “Bowling Night” for the residents at Bel Mateo Bowl in San Mateo on Friday night, April 13, 2012. Food, drink, fun and camaraderie were plentiful. There were approximately 25 attendees with several faculty and alumni joining in the festivities.



Class of 2013 members and significant others with Drs. Heesoo Oh and Cameron Mashouf

Our alumni reception at the Annual AAO Meeting in Honolulu was held on Saturday, May 5, 2012 on the Lagoon Lawn before the opening ceremonies. We invited the UCSF Orthodontic Alumni Association to co-host the event. Close to 100 attendees from both schools socialized on a very warm afternoon.



The department poses with Dr. Baumrind and his wife at the Jacob A. Salzmänn Lecture

Our own Dr. Sheldon Baumrind was selected to give the Jacob A. Salzmänn Lecture at the AAO Meeting. It was entitled “In the Spirit of Jacob Salzmänn – the AAOF Legacy Growth Collection.”



The residents' tug of war effort against the faculty, staff and families

On Saturday, July 21, 2012, the department hosted a barbeque at Hellman Hollow in Golden Gate Park to welcome everyone to the new academic year and the Class of 2014 to the program. It was a wonderful sunny day, which was a very pleasant surprise (the weather did not cooperate at last year's barbeque!) About 60 residents, faculty, staff, and families came to enjoy food, games, and friendship.



Department barbeque on a beautiful day in Golden Gate Park's Hellman Hollow

The Alumni Association hosted a barbeque party for residents, faculty, and alumni at the home of Dr. Bert Rouleau in Los Altos on Sunday, August 19. At the time this article went to press, about 40 residents, alumni and faculty had responded to attend.



Dr. James McNamara

Dr. James McNamara is the featured speaker at the Annual Dr. Arthur A. Dugoni Orthodontic Graduation Symposium scheduled for Friday, September 21, 2012. The title of his lecture is "The Timing of Orthodontic Treatment: An Evidence-based Approach." He will share the day with the graduating class presenting their research. Dinner for the graduation will be held at the City Club of San Francisco.



The Class of 2012: Drs. Kiri Herchold, Sarah Chung, Michelle Bittner Eberle, Abir Balghonaim, Mihee Hong, James Galea, and Courtney Ray (Dr. Katherine Kieu was unable to attend) with Dr. Heesoo Oh at dental school commencement ceremony on June 17 at the Masonic Auditorium



Peter B's Brewpub in the Portola Hotel and Spa is the site of our next alumni reception

The alumni reception at the PCSO Annual Session in Monterey is scheduled for Saturday, October, 2012 from 5:30 p.m. to 7:30 p.m. at Peter B's Brewpub. The restaurant is in the Portola Plaza Hotel and Spa, which is located adjacent to the Monterey Conference Center. All alumni receptions will be held there in different parts of the restaurant. We look forward to seeing you there! Keep an eye out for your invite or call Regina Carino at (415) 929-6556.



Dr. Roberts and Maryse Aubert ('80) in Healdsburg

On a different note, several faculty and alumni, including Maryse Aubert, Bill Lieber, Steve Larson and myself traveled up to Goepfrich Winery in Healdsburg for a wine tasting event on Saturday, March 21, 2011 with Gene Roberts! Many of us remember Gene from his days at UOP before he became Chairman of Orthodontics at Indiana University in 1988. He has not changed a bit and is as passionate about winemaking as he is about bone biology. Gene even gave a presentation on "Osteoporosis and How to Prevent It." We tasted several excellent wines from his winery in Dashwood, New Zealand.

Maryse and I were so impressed with the Sauvignon Blanc that we brought a case to the Graduation Dinner last September. Kimberly Mahood also donated some of Gene's wine. Drs. Art and Steve Dugoni, Maryse Aubert, Bert Rouleau, Kimberly Mahood, and I are donating several cases of wine for the Graduation Dinner this year. Gene is planning on attending the dinner!

The *Trident* has been a great way for interested parties to remain in touch with the Department. If you know of interested parties who do not receive the newsletter, the easiest way to access the newsletter is to go to the new Alumni Association site at dugonionline.org. From there, click "Publications" on the left and it will take you to the page where the newsletter is linked.

We are continuing to compile an email database of faculty, friends, and alumni. It is a never-ending task for an ever-growing list. If you know of colleagues who would like to be included or have a classmate that may have been excluded, please email me with updated information at orthojet@aol.com.

Thank you to the many who have already paid their dues. Alumni Association membership supports our Pacific Chapter as well as our Orthodontic Department. Funds will provide support for Chapter events such as the Alumni receptions at the annual PCSO and AAO meetings so the Department is not burdened with having to fund these events from their budget. Continuing education including the annual West Lecture and the continuing education program during Graduation Day festivities is also supported. In addition, our bowling party and barbeque were great ways for many alumni to come back and reconnect with the department!

The Alumni Association as a whole also supports alumni receptions at CDA and ADA meetings, numerous other chapter events, continuing education and receptions at the Annual Alumni meeting, and the new online Alumni Directory.

We feel it is important to belong to the Alumni Association and we need your support. So when the dues notices are mailed, please support our efforts to improve your Alumni Association. Remember that the notices will be coming from the dental school's Alumni Association, not from the Orthodontic Department. If you are an orthodontist and friend of the department, but did not attend our school, you can still join as an associate member!

Some alumni have chosen to either give to the Pacific Orthodontic Alumni Association on a monthly or quarterly basis. Others have switched their pledges from the Dean's Fund to the P.O.A.A.

I served as President of the Orthodontic Alumni Association in the mid 1990s and it has been a privilege serving once again as we reorganized and became a part of the dental school's Alumni Association. Dr. Kimberly Mahood will be serving as your next chairperson when she takes the reins at the PCSO Annual Session in October. I will continue helping with the *Trident* as we continue our mission to revitalize our Alumni Association. A hui hou, Jet.

BUILDING OUR FUTURE, EMBRACING OUR LEGACY

Future New Campus Positions Pacific for Continued Greatness in Dental Education

Arthur A. Dugoni, Dean Emeritus

One of the keys to a successful dental education enterprise is the people, programs and facilities all working in harmony to create dental professionals of the highest standards.

I am excited to update you about a major undertaking to create new facilities for the Arthur A. Dugoni School of Dentistry. Pacific has very talented people and high-quality programs, as our Orthodontic alumni know first hand. When it comes to our school facilities, we recently took an important look at the quality of our facilities in order to make sure they allow us to offer the very best dental education programs in the world.

You may have heard about plans for our new campus from fellow alumni and colleagues, and in communications from the school. I'd like to recap a few of the key reasons the school is taking this major step into the future.

The school is looking to create modern, flexible learning environments that allow for small-group, case-based interaction used in the Pacific Dental Helix Curriculum. We also have big plans to completely redesign and update our Main Clinic as we adjust our clinical model to include eight small-group practice clinics instead of four large-group clinics. We are also looking to improve the communal aspects of our campus so that students, faculty and staff can better gather in larger spaces, which we currently do not have in the Pacific Heights location. Another reason to explore a new location is the accessibility of the school to our patient population. Many of our patients travel to us from around the Bay Area and Northern California, and we are interested in a location close to major public transportation hubs in order to improve public accessibility.



View of the new campus location in the South of Market neighborhood of the City

Other factors include the condition of our current building, which was designed and built in the 1960s. It is now starting to show signs of wear and tear, particularly in the building mechanics and other internal workings.

Those are some of the key reasons why we decided to pursue a new campus in a new location. After much analysis, the school decided that remodeling the existing structure at 2155 Webster Street would not make sense, in part, because of the years of disruption it would cause to our existing programs. We would ultimately need to compromise on many of the points described above.

With years of planning, analysis and major decisions behind us, here is a preview of the exciting chapter that is ahead of us.

In November 2011, University of the Pacific purchased a seven-story structure at 155 Fifth Street in San Francisco's South of Market ("SoMa") downtown neighborhood. Five floors of the 395,000-square-foot building will house the Arthur A. Dugoni School of Dentistry. The new campus will contain flexible learning environments, research and seminar spaces, a state-of-the-art simulation lab and communal areas to support the dental school family. It will also feature re-designed clinical spaces to support the small-group practice model currently being implemented. Students will experience clinics that will resemble the private practice model and patients will benefit from enhanced privacy, among other benefits. The new campus will be located in a prime urban location offering many neighborhood amenities and close proximity to parking and public transportation options for students, faculty, staff and patients.



Architectural rendering of new campus exterior at 155 Fifth Street

The 155 Fifth Street building is currently undergoing a comprehensive interior and exterior renovation. The new campus is expected to open in mid-2014. The summer academic break in 2014 will be an important milestone, as we plan to move all students, faculty and staff to the new campus during that break.

There are many people involved in this decision to explore new facilities. We are fortunate to have a great team of leaders at the University and dental school levels who have been evaluating the feasibility of new facilities over many years. The work to explore facility options started initially with the school's Strategic Plan, *Advancing Greatness*, in 2007. This was followed by several years of feasibility studies and planning with input from many people in the

school community. I am proud of University of the Pacific President Pamela Eibeck, Dean Patrick J. Ferrillo, Jr., and the many other leaders, committee members and others who are involved in making this project a reality.



President Pamela Eibeck and Jane Kim, acting mayor and district 6 supervisor, smash through a wall at the ground-breaking ceremony in January



Orthodontic department staff tour the space for our new clinic



Dean Ferrillo takes a stroll through the future orthodontic clinic

I encourage readers of the *Trident* to learn more about this project by visiting the web page at www.dental.pacific.edu/plans. You'll see floor plans, architectural renderings, videos and other background information.

This project will require support from the Pacific Dugoni family in order for us to fully realize this exciting vision. The school is in the planning phases of a capital fundraising campaign, which you will hear more about in coming months. These gifts, combined with the sale of the dental school's Pacific Heights building and student housing apartment, will be important sources of funding to create our state-of-the-art new facility.

It certainly is an exciting time to be connected to our dental school. I'm confident this new campus will position us for continued greatness in dental education. Our commitment to staying up-to-date will benefit our current students, residents, alumni, friends and the next generation of dental professionals.

PROFILES

Dr. Jetson Lee, Class of 1986
Editor

In future issues of the *Trident*, we thought it would be interesting to choose an alumnus to profile. One of the more unique classes of our department was the Class of 1986, my class. Our class members came from very diverse backgrounds here and abroad, and included an African American, an Asian American, a Mormon and an Israeli among others. Today, we will have a dialogue with Naphtali Brezniaik, in my opinion, one of the brightest minds to ever come out of the program.

TRIDENT: Tell us about your background before you entered the program.

DR. BREZNIK: I was born on June 5 1950 in Israel, second child of 3, to Moshe and Tova. Both are survivors of the Holocaust. In 1968, I postponed my draft to the army, and went to medical school. In 1975 I got married and joined the navy as a physician, in charge of the hyperbaric medicine section in Eilat. Due to the death of my first wife I decided to leave medicine and went to study computers (1979). There were too many programmers during that time so I went back to study dentistry at the Hebrew University in Jerusalem; I graduated in 1983.

I have an older brother Avi, who is a professor of medicine, and a younger sister Sarit, whose specialty is organizational behavior and coaching.

TRIDENT: What made you decide to go into the specialty of orthodontics?

DR. BREZNIK: During my dental studies, I developed a great relationship with one of the orthodontic instructors, and she, who later became the head of the orthodontic department (this is another story), convinced me that there is nothing like orthodontics. She was absolutely right.

TRIDENT: I remember you showing us a picture of you and your troops in full battle gear in Beirut about two weeks before you started the program. Tell us what you were doing there and what it was like.

DR. BREZNIK: The war between Israel and the PLO in Lebanon in 1982 took place when I was a dental student. I was drafted and on the second night of the war I took my medical unit and moved to Tyre and later to Sidon. Since Israel remained in south Lebanon for several years, I was called back and forth to serve there. Just before we started the program I finished my last reserve duty in Lebanon.

TRIDENT: What are your significant memories of the program?

DR. BREZNIK: The first week was the most difficult one. Our apartment was not ready, we had a one-month-old baby, Sivan, and we could not find a hotel in San Francisco because it was during the Democratic Convention. So we lived in a hotel in Oakland. The first week's reading list was so immense that I did not sleep at all, studying in the bathroom of the hotel. Can you imagine? I believe that the group I was with, the residents and the teachers, especially, Dr. Poulton, Dr. Roberts, Dr. Rutter, and the rest, accepted the foreign resident, and helped me through the tough period, which later became to be one of the best in my life.



TRIDENT: You had two children while you were in the program, your youngest, Tamar was born during the program. One of our other classmates had four children while in the program. Tell us what it was like to raise small children while in the program.

DR. BREZNIAK: The truth is that my wife Judi, who I am separated from now, took great care of the children. I could help her during the weekends, but other than that, she gave me the freedom to invest my time and attention to the program.

TRIDENT: What did you do after graduation?

DR. BREZNIAK: I went back to Israel, and joined the Dental unit of the Army. About five years after I returned to Israel, I established the army orthodontic residency and headed it. During those years, I rose to the rank of lieutenant colonel. In 1997, I was discharged from the army, but I am still running the department today, but as a civilian. The residents are all dentists in the army so they wear uniforms.

TRIDENT: It has been over 25 years since we graduated. What are the highlights of your illustrious career thus far?

DR. BREZNIAK: In 1987, I joined the orthodontic department at TelAviv University, where I started to become involved in research. I published several papers related to orthodontically induced inflammatory root resorption. When the orthodontic residency in the army was started, I left the university, and continued my work in the army. While I was teaching full time, I published more than 50 papers, gave lectures all around the world (AAO and WFO meetings, England, France, Greece, Turkey, Australia and of course, Israel). I serve as a reviewer for the *AJODO*, *AO* and other scientific journals.



The Class of 1986 at a reunion lunch during the 2005 AAO meeting in San Francisco where Dr. Brezniak was a speaker. From left: Larry Crawford, Carey Noorda, Naphtali Brezniak, Stephen Larson, and Jetson Lee

TRIDENT: You are one of several alumni that are now heads of departments. Tell us about your department and what things you took from UOP to help develop your department.

DR. BREZNIAK: The department is being managed in a very similar way to the one I graduated from at UOP. The reading list, at first, was very similar, and the residents had to do the same things I did there, attend seminars, have clinic, do research and publish. They analyze their own headfilm, do lab work and scalloped wire exercises. I try to give them all versatile systems that I studied in the UOP. I believe that during their studies, my residents get the tools, which they can choose from later in their practices. I tell them that every time they get something new, they should place it on the shelf. One day they will use it.

TRIDENT: What is your typical week like?

DR. BREZNIAK: I teach in the mornings and have private practice three afternoons and evenings a week. I also have a satellite clinic, which I visit once a week. I bike three mornings a week and go to the gym three nights a week. I write books and stories and of course papers for publications. And I have one night for entertainment. I believe that's about it.

TRIDENT: You mentioned that you write books and stories. Can you elaborate?

DR. BREZNIAK: I have two books that have been published. *The Birch Trees Stand Tall: A Jewish Fighter in the Polish Army, in the Mezritch Ghetto, and in the Concentration Camps* are memoirs as told to me by my father about living as a Jew during the Holocaust. It tells of his time in the Polish Army, his capture as a POW, time and subsequent numerous escapes from death in Nazi concentration camps. It has been translated into English and recently into German. My family and I recently traveled to Berlin for a book signing. The book can be found on Amazon.com. The second book is a novel called *Abstracts*. It is only in Hebrew at this time.



Dr. Brezniak skydiving over New Zealand.

TRIDENT: You also mentioned that you are active in an organization related to the Holocaust.



"Tfila" (Prayer, by Yael Artzi) in the city center square of the Polish town of Miedzyrzec Podlaski

DR. BREZNIAK: I am an active member of a Holocaust survivors committee in Israel, whose goals are to commemorate those who did not survive the Holocaust by being involved in movie productions, productions of plays, annual memorial ceremonies, book publications, and managing a web site. I was also involved in placing a memorial statue in Miedzyrzec Podlaski, the town where my dad was from.

TRIDENT: What are your daughters Sivan and Tamar doing now?

DR. BREZNIAK: Sivan is now 27. She graduated with a BSC (with honors) in computer sciences and she is working at SAP. Next year she will obtain her masters in business. Tamar is now 25. She graduated with a BA (with honors) in psychology and she intends to begin work on her masters next year.

TRIDENT: I want to thank you for your time. I learned even more about your interesting life and hope our alumni will enjoy this special view into your life.

PROGRAM DIRECTOR'S REPORT

Dr. Heesoo Oh, Class of 2005
Program Director

It has been over a year since I took the position of Program Director last May. I would like to take this opportunity to thank all the faculty, residents, staff and alumni for their incredible support and encouragement. It is truly an honor and privilege to have this role at the Orthodontic Graduate Program at University of the Pacific, Arthur A. Dugoni School of Dentistry. As an alumnus of the program and full-time faculty since graduation, I take great pride in our program.

My goals as Program Director are to provide the best educational environment conducive to learning the craft of orthodontics and to make life in our department exciting and rewarding. Working with my colleagues to provide the best education for young orthodontists is my professional commitment and greatest challenge.

We are facing new and exciting challenges. They include the need to integrate new technologies (CBCT, intraoral scanner, and 3D model scanner) and their clinical applications into our curriculum and clinic and to implement a system for helping the residents to take the Initial Certification Examination (ICE) for the ABO in which they can utilize up to six cases treated during their residencies for the clinical exam. We are in the process of developing strategies to fulfill these needs.

We have made some valuable additions to our didactic curriculum:

Dr. Roger Boero, who has taught since 1975, came back to teach after seven years of leave. He currently teaches the second-year residents "Principles in Orthodontics," an extensive literature review course. His class is one of the most comprehensive and rewarding courses. We are very fortunate and welcome him back in our program.

Dr. Shahram Nabipour joined as part-time faculty in 2009 and has gained popularity for his excellent teaching in clinic as well as didactic course. He teaches the second-year residents "Advanced Clinical Diagnosis and Treatment Planning."

Dr. Chris Anderson joined the Typodont faculty last year becoming a great asset to our team under the direction of Drs. Ken Shimizu and Bert Rouleau.

Lastly, Dr. Kimberly Mahood is another great asset to our program. She joined the part-time faculty upon her graduation in 2010 and has taken a very active role in organizing various academic activities and department events for the residents. Dr. Mahood also teaches and coordinates the orthognathic surgery guest lecturer series for the first-year class.

The graduating residents took the ABO written examination in April and all passed! Congratulations to all in taking the first step to becoming board certified orthodontists. They are now focusing on completing cases to pursue the clinical examination. This is probably the busiest time of their residency, taking the "ABO Mock Board" organized each year by Drs. Gary Baughman, Peter Worth, and Joe Mitchell, putting together their "Finished case displays," and completing their research theses for presentation to the executive committee and at the graduation symposium.

We are pleased to welcome another exceptional group of residents (Class of 2014):

Elyse Garabaldi (USC 2012)
Jonathan Gluck (UOP 2012)
Laurie McCullough (UOP 2011)
Eric Nordberg (USC 2010)
Charlene Rocha (UCSF 2012)

Iroshini Perera (USC 2012)
Nicholas Thorpe (McGill 2012)
Walied Touni (Cairo 1994)

DR. MARIE TOLAROVA HONORED WITH INTERNATIONAL CLEFT LIP AND PALATE FOUNDATION'S AWARD OF MERIT

Dr. Marie Tolarova was recently honored with the International Cleft Lip and Palate Foundation (ICPF) Award of Merit, which recognizes her extensive research on prevention of clefts. She received the award on May 9, 2012 during the seventh Biennial World Cleft Lip and Palate Congress hosted by ICPF and held in Mahe, Seychelles.

The Award of Merit is the highest research award given by ICPF, a multi-disciplinary foundation devoted to cleft lip and palate patients. The Award of Merit honors individuals who have made significant contributions to research and care of cleft lip and palate patients.

Tolarova, professor and executive director of Pacific's Craniofacial and Cleft Prevention Program, has led the dental school's efforts to help individuals with cleft lip and palate for many years. She has produced extensive research regarding clefts and has taken part in dozens of international mission trips to help individuals with congenital anomalies. In 2011, Tolarova organized an international conference in San Francisco, which brought together surgeons, dentists, geneticists and others to work toward an effective approach to cleft lip and palate prevention.

"It is a big honor to receive this prestigious award for my lifetime research toward prevention of cleft lip and palate anomalies," said Tolarova. "I am accepting this award on behalf of many colleagues who helped me, and on behalf of thousands of patients and their families who participated in our research with a promise to them that we will use all of our knowledge, skills, and effort toward a better understanding of the causes of clefts and toward developing an effective approach for their prevention."

According to Tolarova, cleft lip and palate anomalies are the most common and one of the most severe congenital anomalies of the face and mouth, and the second most common birth defect in general. Additionally, a study published in the *American Journal of Medical Genetics*, estimates that one out of every 700-1,000 infants is born with a cleft. If other congenital syndromes that include clefts are counted, that number rises to one in 560.



Veronique Laporte, Republic of Seychelles; Mitzy Larue, Minister of Health, Republic of Seychelles; Dr. Marie Tolarova; and Dr. S.M. Balaji, ICPF Congress president

AMERICAN BOARD OF ORTHODONTICS UPDATE

Dr. Steven Dugoni, Class of 1981
Director of the American Board of Orthodontics

I am now entering my fourth year of an eight-year term as director of the American Board of Orthodontics. There have been many improvements with the American Board of Orthodontics and the most exciting development is the Initial Certification Examination (ICE).

In the past orthodontists have typically waited 10 years or more to take the clinical portion of the American Board of Orthodontics examination. The Initial Certification Examination allows new graduates to take the clinical examination soon after graduation. This is not uncommon for board certification in other areas of dentistry and medicine. Most oral-maxillofacial surgeons, endodontists, and periodontists are board certified within one to two years after finishing their residency.

The Initial Certification Examination allows residents to start the certification process by presenting a minimum of three cases to the ABO. If these cases pass, they can be "banked" and the resident has up to ten years to return with the remaining three cases. The examinee is not certified until all six cases are complete. If the residents present and pass all six cases, they become ABO certified. The other significant change is that candidates will be recertifying every ten years rather than receiving a lifetime certificate.

We recently had four of our graduates pass the initial certification examination. Dr. Waleed Soliman (Class of 2009) in 2010, Dr. Lani Chun (Class of 2008), Dr. Joorok Park (Class of 2008) both passed the examination in 2011, and Dr. Marta Parisek-Baird (Class of 2011) in 2012. Congratulations to these new ABO diplomates!

Dr. Soliman sent me the following comments regarding the Initial Certification Examination: "When I started my program I began identifying board cases immediately. After nine months of my residency I identified 12 board cases. I was able to return to Pacific after graduation and finish seven cases. All six of my required board cases were from my residency at Pacific. I took special care to obtain the best records for every patient under my care. It is a process that I encourage every resident to go through. I spent more than two months of daily work to put together my case reports. I particularly liked the ABO electronic submission as it allowed me to access my cases from home and work. The certification process was a great learning experience and refined my clinical skills. The time I spent with the examiners was valuable and beneficial. My involvement in the certification process was a demonstration of my pursuit of continued proficiency and excellence. I feel proud that I am ABO certified within a short time of my graduation."

Our department is committed to helping our residents prepare cases to present for the Initial Certification Examination. I want to give special recognition to Dr. Hee Soo Oh for her extraordinary efforts to prepare our residents for the ABO examination helping them organize their clinical cases and teaching an ABO review class for the Written Examination. All eight of our residents passed the written exam in April 2011 and in April 2012! Thank you to our faculty involved with helping our residents become Diplomates of the American Board of Orthodontics.

I would also like to congratulate the following graduates for their recent certification by the American Board of Orthodontics. The following individuals have certified or recertified in 2011 and 2012: Ronald Champion (1981), Robert Nisson (1988), Dante Gonzales (1997), Michael Payne (1998), Malia Kamisugi (2000), Rebecca Keller (2003), Cory Costanzo (2004), Thomas Ellerhorst (2004), Hee Soo Oh (2005), David Chenin (2006), and Brad Pezoldt (2006).

Last year the following individuals were asked to present cases at the AAO meeting in Hawaii: Joorok Park, Thomas Ellerhorst, Lani Chun and Robert Nisson. Dr. Hee Soo Oh has been invited to show cases at the AAO meeting in May 2013 in Philadelphia.

LAB DIRECTOR'S REPORT REGENERATIVE DENTISTRY – STEM CELLS

Miroslav Tolar, MD, PhD
Lab Director

Almost every day, stem cell research and progress in regenerative medicine and dentistry is breaking news. We are very proud and excited that the Dugoni School of Dentistry is moving with this current and that our orthodontic residents are part of it from its beginning!

Following Dr. Waleed Soliman (Ortho 2009), Dr. Manal Abu Al-Melh (Ortho 2010), Dr. Nicholas Bauter (Ortho 2011) and Dr. Justin Hannon (Ortho 2011), three of our current graduates Dr. Abir Balghonaim, Dr. Michelle Bittner-Eberle, and Dr. Kiri Herchold-Yee will present the results of their research in the field of human adult stem cells at the graduation symposium.

Regenerative dentistry research towards clinical applications of tissue engineering in the Dugoni School, which was initiated several years ago, continues and expands involving more basic science and clinical faculty (Drs. Tolar, Peters, Zeitlin, Nattestad, Javid, Indresano, Park, Alpagot). The Stem Cell and Tissue Engineering Clinical Facility was certified by CSI, Inc., for sterile work in preparation of biological materials for patients.

We have several ongoing research projects focused on clinical applications of platelet-rich fibrin and adult stem cells:

1. Determination of the optimal cultivation conditions for human bone marrow-derived and dental pulp-derived adult stem cells that can be used for building bone, cartilage and nerve tissue.
2. Use of fibrin, platelet-derived factors and low-oxygen atmosphere to enhance growth and differentiation of adult stem cells in culture.
3. Use of autologous platelet-rich fibrin for healing of extraction sockets (with Drs. Anders Nattestad, Bahram Javid, Tamer Alpagot).
4. Analysis of host response during healing of a periradicular lesion and mobilize dental pulp stem cells for pulp and dentin regeneration (with Dr. Ove Peters).
5. Use of dental pulp stem cells differentiated into neurons for drug testing (with Drs. Robert Halliwell, John Livesey, UOP School of Pharmacy, Stockton, and with Dr. Ben Zeitlin) .
6. Experimental treatment of osteonecrosis of the jaw by mesenchymal stem cells (with Drs. Chan Park and Thomas Indresano, Department of Oral and Maxillofacial Surgery).

Our results were presented on national and international levels, papers were published and grant funding was obtained.

Publications:

1. Leprince JG, Zeitlin BD, Tolar M, Peters OA: Interactions between immune system and mesenchymal stem cells in dental pulp and periapical tissues. *Int Endod J.* 2012; Mar 19, PMID: 22429087 [Epub ahead of print].
2. Tolar J, Tolar M: Reinventing mesenchymal stromal cells. *Cytotherapy* 2012; 14/4:388-390.
3. Tolarova M, Mosby T, Capozzi A, Tolar M.: Thirty years of studies, experience, and nuts and bolts on journey toward primary prevention of cleft lip and palate. *Annals of Maxillofacial Surgery*, July-December 2012, in press.
4. Tolar M, Nattestad A, Javid B, Peters O, Bauter N, Balghonaim A, Tolar J: Accelerating expansion of mesenchymal stem cells needed for surgery Oral and Craniofacial Tissue Engineering (2012, acceptance letter received).
5. Tolar M, Bauter N, Hannon J, Abu Al-Melh M, Balghonaim A, Eberle-Bitner M, Herchold-Yee K, Tolarova M, Walters R, Javid B, Nattestad A: Platelets, fibrin and low oxygen increase fitness of mesenchymal stem cells from bone marrow and dental pulp. *Proceedings of the 7th Biennial World Cleft Congress of ICPF, Mahe, Seychelles, May 7-11.*
6. Leprince JG, Zeitlin BD, Tolar M, Diogenes A, Peters OA: Mixed and purified SCAPs: Similar growth, phenotypic and differentiation characteristics (oral presentation #3098). *IADR General Session 2012, Icuacu Falls, Brazil.*

Grant funding:

1. Halliwell R, Tolar M, Zeitlin B, Livesey J: Can human dental stem cells make neurons? (\$6,000 seed grant UOP, May 2012)
2. Chan Park, Indresano T, Tolar M: Treatment of osteonecrosis of the jaw by mesenchymal stem cells in a rat model. (\$6,000 seed grant, May 2012)
3. Tolar M, Nattestad A: Biological and clinical properties of platelet-rich fibrin. (\$4000 pilot project funding was approved by the Research Committee, IRB application approved in April 2012)

We are open to collaborations in our school, UOP, nationally and internationally. I have been recently asked to serve on the Board of Advisors of a newly established and very promising Stem Cell Clinical and Research Program in Bangalore, India, and Malaysia.

DEPARTMENT CHAIR'S REPORT

Dr. Robert Boyd *Department Chairman*

Things are going very well in our Department of Orthodontics and for our Arthur A. Dugoni School of Dentistry these days. I am so lucky to be in a place where so many outstanding faculty, staff and residents come in every day and do the best they can for our patients, the residents, the students' educational experience, but most of all, to be part of the magic of Pacific, which is all of us in our extended family.

Beyond our shared joy of being part of the Pacific family, we like to get things done in our department. Our program director, Dr Heesoo Oh, is doing a great job to continually improve the academic quality of our program. She is already getting ready for our upcoming accreditation site visit from the American Dental Association in less than two years by setting up evaluation systems of our day-to-day lectures and seminars which gives us accurate information we can use toward continual improvement of the academic quality of our orthodontic program, based on input from all who participate.

Dr. Oh is also associate director of our Craniofacial Research Instrumentation Laboratory (CRIL) and works closely with our chief of clinical outcomes of orthodontic research, Dr. Sheldon Baumrind. Dr. Baumrind is the principal investigator with Dr. Oh as a co-investigator for the largest grant ever given by our American Association of Orthodontists Foundation for the AAOF Legacy Study. This is a nine-center study (Universities of Michigan, Iowa, Fels Institute at Wright State, Harvard (Forsythe), Colorado (Denver Collection), Case Western (Broadbent-Bolton collection), Oregon, Toronto (Burlington Collection), and Pacific-Dugoni (Mathews Collection) which has its primary focus on preserving the historical collections of untreated (and some treated) patients housed in these universities. Another goal is developing a web site (see www.AAOFLegacycollection.org) that will provide access for clinical investigators to take sample patient records from these invaluable collections, which were beginning to show signs of degeneration as x-rays aged. Much appreciation is due to the huge fundraising success of Dr. Tom Bales, one of the hardest working and successful fundraisers for the AAOF, who has focused his energy on raising several million dollars for the Legacy Collection funding.

At the same time Dr. Maureen Valley, our clinical director, is also working hard to improve our delivery of care. Of great interest to Dr. Valley is our Practice Management series of courses. Besides her own considerable management skills and state-of-the-art private office in Marin County, she has some of the best known experts in orthodontics contributing such as John McGill, Steve Hannon, Ron Redmond, Tom Bales, Robert Fry, Tom Pitts, Bob Hager, Rosemary Bray and other outside speakers, plus a whole series of our faculty who open their offices for our residents to visit.

We have also been quite busy in clinical research involving intraoral scanning using the two Align-Cadent Itero scanners we purchased last spring. We are conducting a study of the new Teen Invisalign™ Appliance with a two-year \$50,000 grant awarded by Align Technology to principal investigator Dr. Sheldon Baumrind and co-investigators Heesoo Oh and yours truly. We also use these scanners for study models as well as for Invisalign treatment. In addition, we are working with Anatomage (maker of 3D software called In Vivo) located in San Jose, CA on developing cone beam computed tomography (CBCT) models called Anatomodels which will also have an intraoral scan or surface map of the teeth which is shape matched and merged with the teeth of the CBCT. This model provides all layers of the virtual patient from the colorized skin, the skeletal structures, the dental arch surfaces, alveolar bone, and teeth with actual roots. We also recently upgraded our i-CAT CBCT machine in Radiology, which allows us to take CBCT images in less than half of the radiation previously required. We can now take a 3D CBCT image in 4.5 seconds that has an almost equivalent dose of radiation to a panoramic x-ray.

RESEARCH UPDATE

Another Student Research Success!

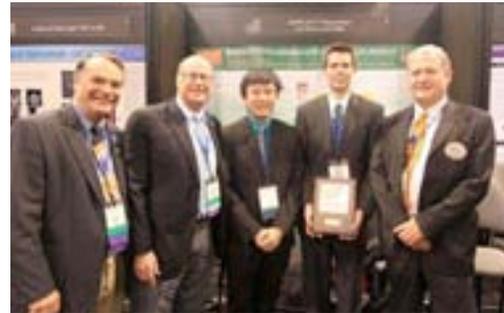
Dr. Marie Tolarova
*Executive Director,
Pacific Craniofacial Team and Cleft Prevention Program*

Each year during the Spring Scientific Session of CDA in Anaheim, students of dental schools in California compete in the Students Table Clinic competition. And every year we are sending students to present their research in the Craniofacial Genetics.

Our congratulations go to Kevin Hallgren and Samuel Liu, DDS 2013 who won the second-place award in the Basic Science category for their presentation “MTHFR 677CT polymorphism and cleft lip and palate anomalies” in May. A week later at the 14th Pacific Research Day, they won the Hinman Symposium Award and will represent our school in October at the Hinman Students Research Symposium in Memphis, TN.

Kevin and Sam began their student research with our Craniofacial Genetics group during their first year in dental school and have spent many hours in the lab learning molecular genetics techniques. They also supported several ongoing research studies and did an excellent literature review on genetic mutations related to cleft lip and palate anomalies in their ICSII course.

They both are excellent students, engaged in many extracurricular activities at school, and we wish them success in pursuing their professional specialty in graduate programs.



Samuel Liu and Kevin Hallgren DDS 2013 (third and fourth from left) at the 2012 CDA Spring Scientific Session in Anaheim