



COLUMBIA UNIVERSITY

*School of Dental and
Oral Surgery*

primus
fall 2004 vol 10

SDOS in the Digital Age...

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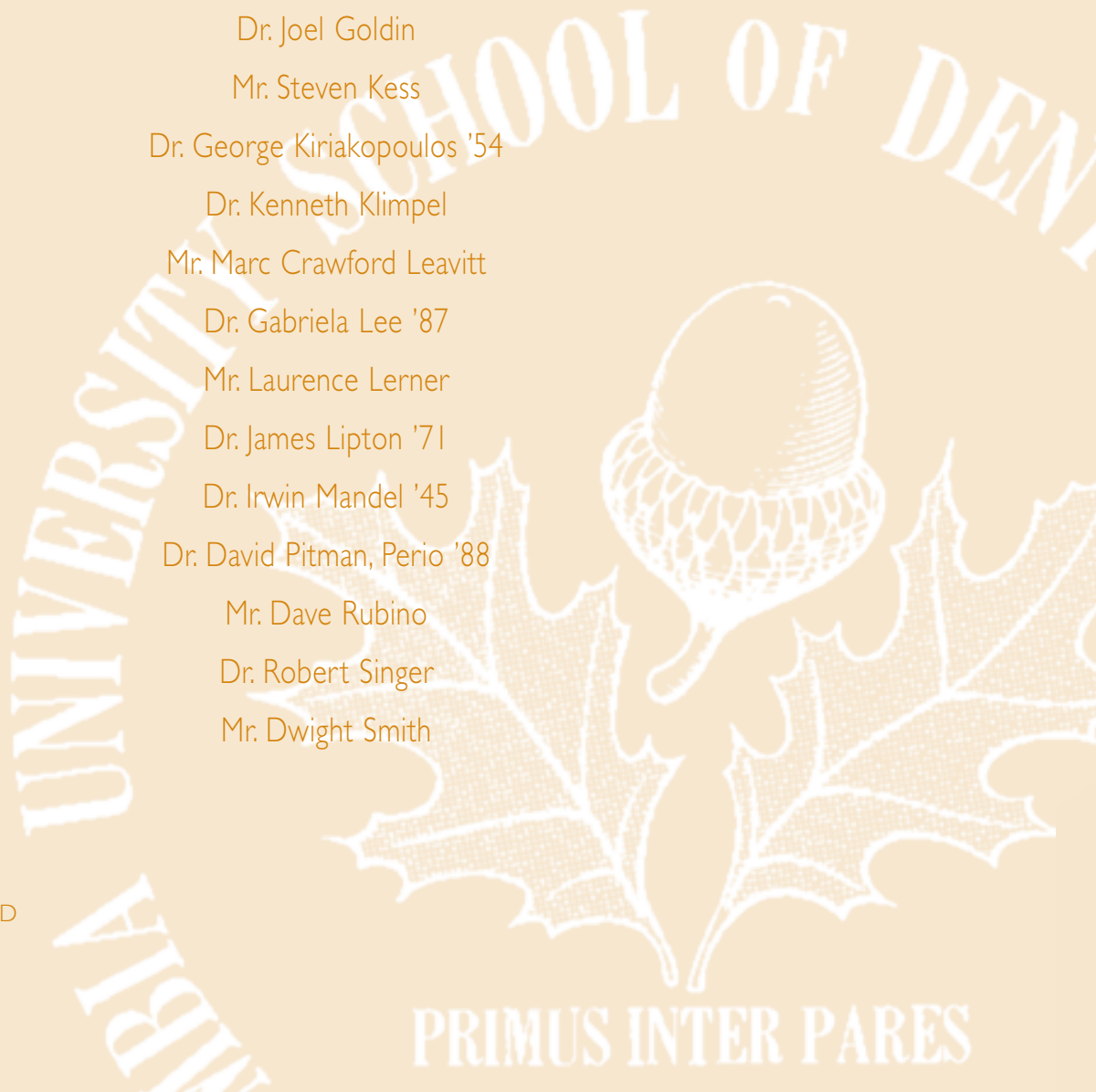
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FROM THE DEAN'S DESK



I am pleased to send you this first issue of *Primus*. Formerly called the *Dental Examiner*, *Primus* is the new name of the School of Dental and Oral Surgery alumni magazine and is part of an expanded line of communications between the School and our constituents. These include: *Primus Notes*, a newsletter first published in May of this year that will be sent to you each winter, spring and summer; *Primus*, published each fall; and *e-Primus*, an electronic newsletter, which is intended to appear monthly. This issue of *Primus* contains news and features about our faculty and alumni, as well as an overview of how the most recent technology in our field is being applied to dental education at SDOS.

The subject of technology in the practice of dentistry was the focus of a symposium held at the School on April 2, 2004. Among the topics discussed at the symposium were electronic record-keeping, digital imaging, continuing education on the web, and the application of new diagnostic technologies for oral and dental disease.

The introduction of new technology into the dental office offers enormously exciting possibilities. The paperless record will improve efficiency and, when combined with digital imaging, will reduce the burden of record storage in the office, improve the speed and efficiency of submission to third-party payers, and streamline the process of referral between practitioners. Nevertheless, transition to this new technology will not be easy. In addition to the actual expense of both hardware and software, and maintaining and implementing those systems, there will be a considerable learning curve for both practitioners and staff. Further, the introduction of this technology will occur gradually across the profession, and those involved at an early stage may find themselves restrained by the absence of a fully developed network. Nevertheless, these changes are inevitable in the future of our profession.

The School of Dental and Oral Surgery has many responsibilities. In addition to educating the next generation of dentists and dental specialists, caring for patients, and adding to the knowledge base through research and discovery, the School must serve as a resource for the profession, with a focus on our alumni. I hope you will plan a visit here to participate in one of our continuing education courses and to become involved in our Alumni Association and School activities.

A handwritten signature in blue ink, appearing to read 'Ira B. Lamster'.

Ira B. Lamster, DDS, MMSc
Dean, SDOS

FROM THE PRESIDENT

I am excited to be beginning my term as President of the Alumni Association during such a dynamic period for the School and its graduates. I look forward to a year in which alumni interest and participation will rise in response to the many ongoing scientific and educational achievements of our School.

With support from Dean Lamster, the Alumni Association has already been busy expanding resources for our members by establishing regional study clubs in Westchester, Long Island, and New Jersey. We have also reached out to members in Boston, Florida, and California with Alumni Association-sponsored evenings. Our efforts have resulted in many more alumni than ever before becoming involved with the School's educational and social activities.

We are also continuing to increase outreach through new events in Manhattan. They have included: an Alumni Evening at the Columbia Club, a Student and Alumni Mentor Reception at the West End Café, a Young Alumni Reception at the Mica Bar, and a Welcome Back Dinner for the Class of 2003 at the Metropolitan Café.

Support for student activities and outreach to young alumni will continue to be our major areas of focus. We are collaborating with the Dean's Advisory Council in its efforts to increase and strengthen alumni relations at SDOS. We will encourage recent graduates to maintain firm ties and continuing interaction with SDOS, while, at the same time, we seek renewed connections to alumni with whom we have lost touch.



Sarina Reddy, DDS '93

President

Association of Dental Alumni



SDOS at Work



p. 05 • Digital Dentistry

p. 11 • Oral Pathology

p. 13 • SMEP/STEP

IN THE OFFICE, IN THE LABORATORY, AND IN THE LECTURE HALL: Digital Dentistry Is Here

Dr. John Zimmerman, assistant dean for information resources, who coordinates informatics technologies at SDOS.

EVERYTHING THAT CAN BE INVENTED HAS BEEN INVENTED. • US PATENT OFFICE COMMISSIONER CHARLES H. DUELL, 1899

teaching and research methods through the use of modern technology by recruiting John Zimmerman, DDS, to its faculty.

When Commissioner Duell made this declaration with such absolute certainty, he was—in spite of being the ultimate Washington insider on the matter—absolutely wrong! The extraordinary inventions of the 20th and 21st centuries have exceeded all expectation, making the world a very different place than Commissioner Duell imagined a century ago.

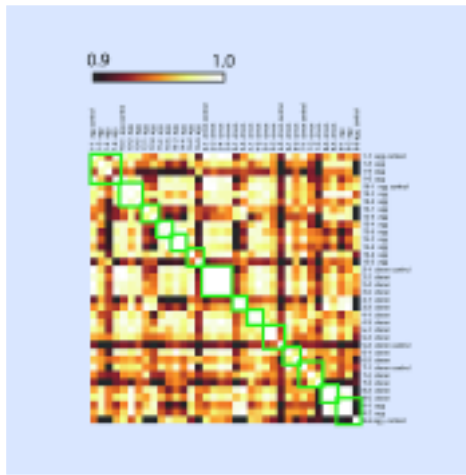
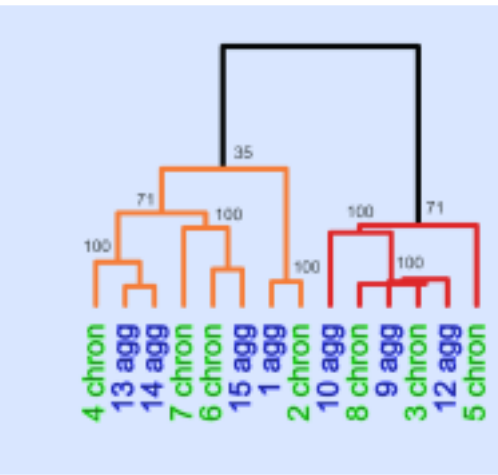
Even the quickest observation of Columbia's School of Dental and Oral Surgery today proves the point. Digital technology provides support for almost every facet of the School's daily conduct. Whether improving the accuracy and security of administrative records, facilitating learning and discovery in the lab and lecture hall, or raising student skill levels at chairside, technology plays a greater role than ever before in dental education and practices at Columbia. Technology's pervasive presence at the Dental School, and throughout dentistry, was reflected in a symposium, *The Changing Face of Dentistry*, given by the School in April 2004. Presentations from the day's speakers covered all of the devices and systems already in place at SDOS, and offered insights on an impressive array of technology yet to come.

In the early 1990s, the School solidified a growing leadership role in the promotion of innovative

INFORMATICS

Dr. Zimmerman, a dentist, as well as an informatician, is the School's coordinator for clinical, research, and educational informatics initiatives; it was he who put this year's symposium together. In 1995, Dr. Zimmerman joined with colleagues at Columbia's College of Physicians & Surgeons to establish the nation's second Department of Medical Informatics at the Columbia University Medical Center. Columbia's department remains one among a very small number of programs offering academic degrees in Informatics in the United States, and is the only one in New York's metropolitan area that is supported by the National Institutes of Health. Columbia's Dental Informatics Fellowship program, directed by Dr. Zimmerman, began granting MA degrees in 1997. Participants study the impact of information technology on health and disease from the molecular level to that of whole populations, with a concentration in dentistry, following one of four tracks:

BIOINFORMATICS • the structure and function of cells and cell components; genomics; and proteomics.
BIOIMAGING • the structure and function of



organs and tissues; imaging techniques; visualization; and physiologic modeling.

CLINICAL INFORMATICS • the delivery of patient care, nursing, and dentistry; electronic medical records; and systems to improve the quality of health care and reduce cost.

POPULATION INFORMATICS • the health of populations; systems to educate providers and patients; and medical research systems.

Dr. Zimmerman is also the associate director of the Columbia Center for New Media Teaching and Learning (CCNMTL) on the Medical Center campus. CCNMTL was founded in 1999 as a university-wide initiative to provide the most supportive environment possible for faculty who invest their time and energy in new media technologies for their courses.

The titles of Dr. Zimmerman's publications since arriving at Columbia reflect the breadth of technological services throughout the School. A description of the online heart simulator he helped to create to augment first-year medical and dental education, a discussion of how informatics can improve portability and accountability for health insurance, and views concerning the viability of digital radiographic imaging in dental practice are clear examples of computerization's strong involvement in every aspect of the School.

profiling, was initiated at SDOS to explore the identification of new subclasses of periodontitis. It is believed to be the first study of gene expression in gingival tissues affected by periodontitis that has been undertaken with microarray technology, the latest method of examining messenger RNA coding for specific proteins as they relate to certain disease processes.

Periodontitis was recently reclassified into two main categories, chronic and aggressive. Although he considers the new system an improvement over its predecessor, Panos N. Papapanou DDS, PhD, is not a phenomenologist; he thinks that the clinical signs and symptoms on which the new distinctions have been based are insufficient. Dr. Papapanou, who is chair of the section of oral and diagnostic sciences and director of the Division of Periodontics at SDOS, argues that only a pathobiology-based foundation can accurately define diseases and make the differences between disease subtypes indisputably clear.

Dr. Papapanou chose microarray technology for his research because this advanced method is comprehensive and free of previous postulates for studying gene expression. Since Crick and Watson's discovery of the structure of DNA 50 years ago—one of the great turning points in the history of science—biology, immunology, medicine and genetics have all been radically transformed. Microarrays, short DNA sequences spotted on the surface of a chip, are one of the legacies of that historic revelation and have revolutionized the study of gene expression. By determining which spots of DNA bind to probes made from messenger RNA extracted from a biological sample, scientists can obtain an instant snapshot of the activity of thousands of genes at one time. The technique has been employed to separate otherwise homogeneous can-

top left:
Clustering of gene expression profiles from all patients in SDOS's pilot study on identification of subclasses in periodontal disease.

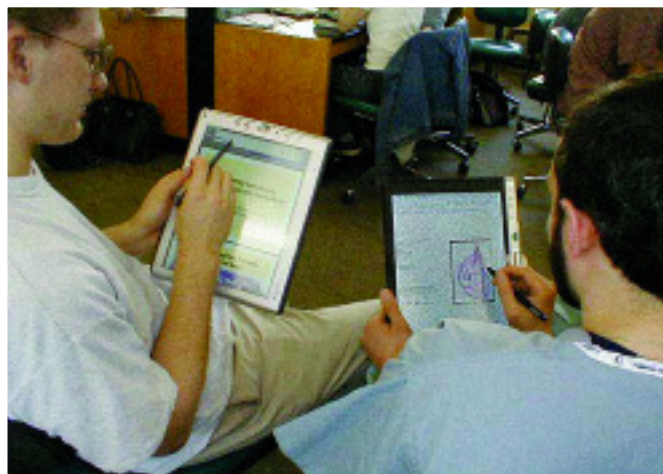
top center:
Correlation matrix for the 36 microarrays of gene expression in gingival tissue samples used in the research.

top right:
Panos N. Papapanou, DDS, PhD, director of the microarray study.

RESEARCH

THERE ARE IN FACT TWO THINGS, SCIENCE AND OPINION; THE FORMER BEGETS KNOWLEDGE, THE LATTER IGNORANCE. • HIPPOCRATES

In 2003, a bioinformatic research project, using a sophisticated methodology called gene expression



cers into distinct groups and determine differences in their long-term prognosis; it has also been applied to studies on muscular dystrophy, Alzheimer’s disease, arthritis, and asthma.

Dr. Papapanou’s study, which also assessed the composition of subgingival bacterial plaque with checkerboard hybridizations, and the levels of serum IgG antibodies with checkerboard immunoblotting, found no significant difference in gene expression between chronic and aggressive periodontitis. However, gene expression data clearly distinguished between two groups of patients, and these two groups also differed in their antibody response to some important periodontal pathogens. These results have proved the usefulness of gene expression profiling in identifying subclasses of periodontal disease that share a common pathobiology, and they may show the way to prospective treatments for varying forms of periodontitis. Based on his research outcomes, Dr. Papapanou has received new funding from the NIH for future studies on this subject.

EDUCATION

THE PRINCIPAL GOAL OF EDUCATION IS TO CREATE MEN WHO ARE CAPABLE OF DOING NEW THINGS, NOT SIMPLY OF REPEATING WHAT OTHER GENERATIONS HAVE DONE. • JEAN PIAGET (1896-1980) SWISS COGNITIVE PSYCHOLOGIST

Dr. Letty Moss-Salentijn, associate dean for academic affairs at SDOS, is also faculty adviser for the *Columbia Dental Review*, the School’s annual journal of student clinical research. Dr. Salentijn is a scholar and researcher who describes her own interests as being, “at the microscopic-anatomical and light

microscopic levels of observation ... centered around qualitative and quantitative analyses of size, shape and structure of skeletal elements, organs, or tissues such as dental tissues.” Her work entails the use of digitized data, three-dimensional reconstruction, and other computer-aided investigation. She is also a member of one of the Medical Center’s strategic planning committees, serving on the newly established Educational Resources Council. It is not surprising that she has taken a lead in encouraging SDOS students to use educational technology that is, she says, as familiar to the “i-pod generation,” as the computer games they have grown up with. Dr. Salentijn’s own use of computer techniques has made her aware of their potential ability “to sharpen the knowledge and skills” needed in the process of discovery.

Students can be in touch with Dr. Salentijn—or, indeed, with any course director—whenever they choose, just as she can with them. Continuous and instant communication is achieved through computer interaction. Students are strongly urged to bring laptops or tablet PCs to classes, for taking notes and accessing web-based resources that can be used in the laboratories. Some types of equipment allow them to add audio from a lecture, or to embellish their notes with graphics shown in class or seen through their microscopes in the lab. Students can also contribute personal discoveries to an image library where each of them has an account. These entries can be annotated both by students and by Dr. Salentijn, and used to discuss their work with her, or to check in on ideas that may not have come up in class. In addition, students can assess their learning progress with computerized self tests. Some faculty have also prepared videos for online consumption that demonstrate the techniques dental students must learn

top, left: SDOS students taking electronic notes.

top, center: Dr. Letty Moss-Salentijn, associate dean for academic affairs at SDOS and advocate for digital aids in education.

top, right: Creating a technologically sophisticated resource for study.

for one of the profession's specialties.

Because the Center for New Media has created home pages for each course, with assignments made online, there is no ambiguity about expectations or responsibility for class work. Course directors also post each student's grades online in a form that can be seen only by the individual for whom they are intended. Chat rooms set up among students are just one more example of extended free communication in this new environment. In the future, Dr. Salentijn says there will be flex tracks adapted to each individual student's preferred learning style. She is planning two such tracks for her own course this year.

CEREC

PEOPLE ARE THE QUINTESSENTIAL ELEMENT IN ALL TECHNOLOGY... ONCE WE RECOGNIZE THE INESCAPABLE HUMAN NEXUS OF ALL TECHNOLOGY, OUR ATTITUDE TOWARD THE RELIABILITY PROBLEM IS FUNDAMENTALLY CHANGED.
• GARRETT HARDIN, ECOLOGIST AND MICROBIOLOGIST

One of the most striking of the emerging teaching technologies in use at SDOS is CEREC, the acronym standing for Ceramic Restorations. This machine, which is based on computer-assisted design and manufacturing (CAD/CAM), is part of a constellation of computer-based information technologies that are being introduced into the dental operator. The other devices, including digital radiography, digital intraoral video cameras, digital voice-text-image transfer, and periodontal probing devices, are almost entirely involved with diagnosis and treatment planning, while CEREC is a tool for designing and creating restorations. This system

allows the dentist to completely restore single teeth at the chairside in one visit and, often, in something under an hour.

The CEREC unit at Columbia was consigned to SDOS by the manufacturer for use as an aid in education, and Columbia is one of the few dental schools that actually teaches students at the undergraduate level how to use this technology. Doing so requires the university to dedicate a teaching position to the task, which is held at SDOS by Dr. Chaim Wexler, assistant clinical professor and director of the area of concentration program in CAD/CAM dentistry. The School has budgeted these funds to support the technology and share in its development. Dr. Wexler spends two days a week with seniors and Advanced Education in General Dentistry students, who have chosen a clinic case and signed up to work on it with him in CEREC mode.

While the technology is extraordinary, Dr. Wexler makes it clear that dentists must use their intuition, experience, and learning, in addition to the computer-aided design, to perfect the final product. The system does offer many indisputable advantages over the old method of making a rubber mold impression that must be sent to the lab to create the fitting, a procedure that can take up to two or more weeks to complete.

According to Dr. Wexler, the technology is expensive and cannot produce every prosthodontic device required. It also requires more development and more time to become widely accepted, but will certainly make its way into the dental armamentarium. So, while CEREC will probably not drive laboratories out of business, every dental student will benefit from understanding how and when to use it.

below, left:
Dr. Chaim Wexler works with a student in the CEREC mode.

below, center:
At the CEREC station, preparing a fitting.

below, right:
Putting finishing touches on the CEREC-milled fitting.



DENTSIM

ANY TEACHER THAT CAN BE REPLACED BY A COMPUTER, DESERVES TO BE. • DAVID THORNBURG, FUTURIST, AUTHOR AND CONSULTANT

Simulation training received at a critical point in the development of dental students appears to be important for their maturation as good clinicians. Some dental schools, therefore, are currently emphasizing the evolution and improvement of pre-clinical simulation laboratories.

One of the most advanced of these options is in use at SDOS. It is the computerized dental simulator unit, DentSim™, which uses virtual reality to train students. Columbia was the second dental school in the United States to introduce this teaching technology, and is one of only a dozen schools of dentistry that provide such computerized training. The system, as described by the manufacturer, is made up of a patient mannequin, a set of dental instruments, infrared sensors, and an overhead infrared camera that produces a three-dimensional image of the patient's mouth on the computer monitor. The virtual environment is enhanced with complete patient records, including x-rays, to accompany each case. All work on the unit is video-recorded so that students can stop, review what they have done, and have their work evaluated against the ideal, pre-programmed preparation. The system software also stores student practice sessions, allowing instructors to view them in their entirety. The School bought its first unit in 2000 and now has three upgraded models that are more compact and ergonomic. The improved software offers instruction in more procedures, and gives a closer approximation of the actual clinical environment. The camera's view and tracking system has been improved to take in a wider spectrum of

activity and to show a completed procedure in greater detail.

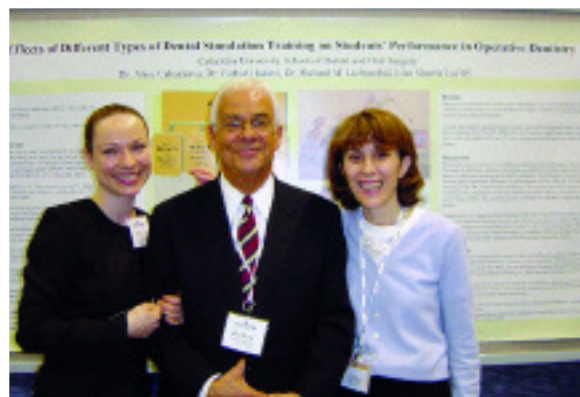
CDS (computerized dental simulation) training at the School is directed by Assistant Professor of Clinical Dentistry Alice Urbankova. While Dr. Urbankova says that computer simulation works well with today's students because they have grown up in, and are familiar with, the cyber world, she also observes that they still have insufficient preparation for the hand-eye coordination and manual dexterity necessary in dentistry. Their outlook, she says, is two-dimensional and must be converted to a three-dimensional skill. To help determine the proper implementation of virtual reality in the dental curriculum, Dr. Urbankova and Dr. Richard Lichtenhal, chair of the Section of Adult Dentistry and director of the Division of Operative Dentistry, designed a series of evaluation studies on the educational impact of simulation technology in their teaching. They believe the main advantage of CDS training over more traditional instruction might be the system's easy-to-access, objective feedback. For students, this process differs fundamentally from asking for the opinion of their instructors, and sometimes finding that a human response may not always be available when needed. In general, the timing of directed and guided feedback during the initial stages of preclinical operative training appears to be strategically important.

There has been little other research published on this subject, and SDOS is the leading institution investigating the educational benefits of this technology. Two of four studies published in the *Journal of Dental Education* in 2004, as well as one in review, carried out in collaboration with Case Western Reserve University in Cleveland, Ohio, showed that the main component of student progress came from the effect of self-evaluation. This is true because VR's graphical analyses teach students to analyze their work and to develop a pattern for

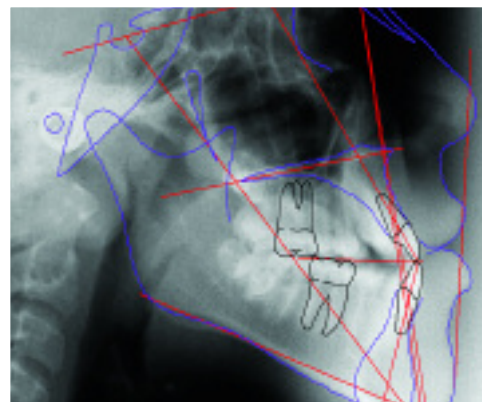
bottom, left:
DentSim's screen demonstrates a procedure.

bottom, center:
The 'patient' on which students train in DentSim mode.

bottom, right:
Drs. Alice Urbankova, Richard Lichtenhal, and Vicky Evangelidis in front of a poster evaluating dental simulation training regarding student performance in operative dentistry.



Cephalometric tracings
and x-rays produced with the
Dolphin Imaging System
by students in the
Division of Orthodontics.



their future practice in a conventional laboratory. The researchers do not foresee DentSim as a substitute for human instruction or student/instructor interaction and communication, but as an adjunct to traditional methods that can enhance the preclinical education experience.

DOLPHIN/ORTHOCAD
ANY SUFFICIENTLY ADVANCED
TECHNOLOGY IS INDISTINGUISHABLE
FROM MAGIC. • ARTHUR C. CLARKE

Director of the Division of Orthodontics Dr. Thomas Cangialosi has introduced one of the most comprehensive applications of technology at SDOS. Dr. Cangialosi has initiated the use of digital technology for gathering, storing, and analyzing patient radiographs, photographs, and study models in the postdoctoral orthodontic clinic. The Dolphin Imaging System, a special software program, enables students to trace and make measurements of their patient's jaw structure on digital radiographs, directly on clinic computers. It can also assist in diagnosis and treatment planning, as well as helping with predictions for treatment outcome.

This innovative program lets students download their images directly into the computer without the use of film, and to trace and measure cephalometric x-rays digitally, saving a great deal of time and effort. Prior to the use of this technology, all cephalometric radiographs had to be traced by hand, and measurements were made using a ruler and protractor, which was both time consuming and labor intensive. Initial studies of this new technology have indicated that the digital tracings produced with it may be more accurate as well.

The Division has also discontinued the use of plaster study models and, instead, uses digital models produced by the Orthocad System for diagnosis

and treatment planning. The impressions taken with this computer technique are sent to the Orthocad laboratory, where they are scanned and may be downloaded from the internet within a few days. The software provided by the system allows students and faculty to manipulate their onscreen images so that they may be viewed from any angle, and to make measurements of such things as overbite, overjet, tooth size, crowding or spacing, as needed for final treatment evaluation.

THE FUTURE

It is clear from the examples of cutting-edge technology already in place at SDOS that dental education has entered the digital world, but there is a continuing flow of new instrumentation and procedural methods being made available to practicing dentists, with which dental students must become familiar. One, a scanning device, takes images of multiple slices through the mandible or maxilla that can be reconstructed in any plane and presented three-dimensionally. The results draw a virtual road map for oral surgeons, giving precise measurements for bone thickness and showing the location of nerves, information critical to surgical success and not obtainable on ordinary dental x-rays.

Other proposed instruments for the dental profession are linked by their designers to ideas originating with aerospace engineering. Among these are: an air abrasion instrument that can erode minor tooth decay, then shoot in a spray of sealant; a multi-spectral sensor that can detect oral cancer; and ergonomic dental chairs. These, and many other innovations, are all on the drawing board.

The future of dentistry is here and SDOS is moving with the times.

Oral Pathology

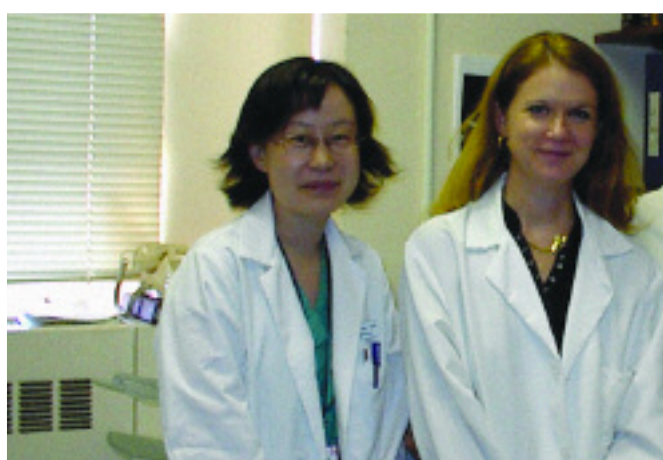
A NEW RESIDENCY PROGRAM AT SDOS

The first widespread interest among dentists in the pathologic processes of oral diseases seems to have begun in mid-19th century, when reviews of such cases found their way into medical journals. Participants at dental meetings of the period were also encouraged to bring both their microscopes and microscopic slides of cases for discussion. By the time the American Dental Association was formed in 1860, one of its nine standing committees was the Committee on Dental Pathology and Surgery.

Oral Pathologists are, however, a rare breed. Their training is long and intense, they must be

at Columbia. His love for the detailed color and texture of 15th- and 16th-century Flemish paintings, however, translated easily into a later absorption with the microscopic morphology of scientific investigations that are his lifework. Today, he is fond of drawing an analogy between the two disciplines. Dr. Zegarelli undoubtedly inherited an interest in probing the causes, process, and effects of oral disease from his father, Edward Zegarelli, who was director of diagnosis and radiology in the Division of Stomatology before becoming Dean of the School from 1973 to 1978 (see p. 25). The younger Dr. Zegarelli

left: Dr. Angela Yoon, the Oral Pathology Graduate Program's first enrollee, with Dr. Carla Pulse, assistant director of the program.



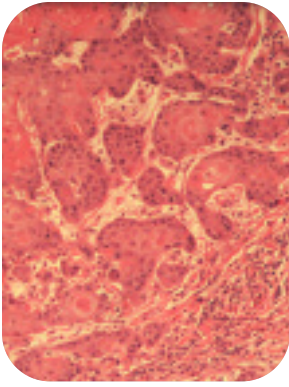
board certified to work—and they number only 250 for the entire nation. The discipline is the most medically oriented of all dental practice, according to Dr. David Zegarelli, director of the Program in Oral Pathology and of its one-year-old Oral and Maxillofacial Pathology Residency Program. Oral pathologists are also distinguished from their medical colleagues in two very important ways: they can perform biopsies, which most pathologists do not do, and then read them and discuss the results and treatment with their patients, which, again, most medical pathologists do not do.

Dr. Zegarelli, who holds double academic appointments in the Division of Oral and Maxillofacial Surgery at the Dental School and in the Department of Pathology at the Medical School, where he is also a clinician in the Department of Dermatology, once considered a very different pursuit. He confesses to having been tempted by a career in art history during his undergraduate days

received his DDS from Columbia in 1969, then went on to three more years in a pathology residency, and, in 1972, took up his post as Columbia's only oral pathologist. He remained solely responsible for oral pathology at the School until 1993, when he was joined by Dr. Carla Pulse.

Together, Drs. Zegarelli and Pulse have designed and implemented the Oral and Maxillofacial Pathology Residency Program, admitting their first candidate on July 1, 2004. The program is approved by the American Dental Association Council on Dental Education and qualifies the resident for the American Board of Oral Pathology examination. It consists of a 36-month, hospital-based residency, offering training similar to that of the medical general pathology residents. In addition to its education objectives, this program also teaches the resident to feel comfortable in the hospital environment, and to be competent and confident while interacting with medical colleagues. It also focuses on the acquisition

right: Dr. David Zegarelli, director of Oral Pathology and of its graduate program.



Low-power photomicrograph of a well-differentiated squamous cell carcinoma of the tongue of a 48-year-old female, social occasional drinker, and non-tobacco-consumer. Although many people in the US have stopped smoking in the past 30 years, the incidence of oral squamous cell carcinoma has risen slightly. Thus, other factors regarding the genesis of this most common intraoral malignancy must be considered.

of capabilities that will lead participants to a career in hospital oral pathology and allow them to function effectively in the practice of clinical oral pathology. To achieve these goals, program participants are expected to:

- Understand and correlate the gross and microscopic characteristics of biopsy specimens in order to form an accurate diagnosis of diseased tissue(s);
- Learn to write gross and microscopic descriptions;
- Establish and maintain an oral pathology biopsy service
- Diagnose and treat oral mucosal diseases, including: vesiculobullous diseases, the effects of medications on the oral mucosa, allergic reactions, infectious disease—particularly viral and fungal, and premalignant and malignant lesions;
- Learn the effects of systemic diseases on the oral tissues;
- Teach oral pathology to undergraduate dental students, dental residents and oral and maxillofacial surgery residents;
- Teach oral pathology to oral pathology and general pathology residents;
- Present routine and unusual case reports at hospital conferences and tumor boards;
- Perform clinicopathologic research; and,
- Prepare manuscripts for publication on clinicopathologic research.

Dr. Angela Yoon, a Columbia University dental school graduate, who holds a master's degree in public health and another in medical science from Boston University, is the Program's first trainee. Her enthusiasm for this discipline is strong. Dr. Yoon believes that pathology "gets to the bottom of the problem," making it possible to discover the etiology of a disease through reading cellular changes. Clinical analysis of disease can be, she says, "problematic," because it is often dependent on anecdotes and symptoms, while pathology "defines the disease process." Although likening oral pathology to dermatology of the mouth, Dr. Yoon says she finds oral pathology more interesting and varied than medical pathology.

In addition to Dr. Zegarelli as director and Dr. Pulse as associate director, the program's professional staff is rounded out by Dr. Charles C. Marboe, MD, vice chair of the Department of Pathology and director, Pathology Residency Training Program, for the College of Physicians and Surgeons, and Dr. Kathleen O'Toole, MD, director of Surgical Pathology at the medical school.

Dr. Pulse, a graduate of the University of Tennessee's dental school, shares the workload of the Program in Oral Pathology with Dr. Zegarelli, seeing patients, lecturing, and—above all—spending time at the microscope. "She is very adept with the microscope," says Dr. Zegarelli, adding that he believes Dr. Pulse, like many pathologists, enjoys the solitude of microscopic work. Both Dr. Pulse and Dr. Zegarelli have ample opportunity to work in their labs, because private dental practices from all over the United States send slides to Columbia for diagnosis. Columbia's excellent reputation in the field and the lack of oral pathologists in the nation have caused the demand for these services to rise. Dr. Zegarelli believes that he and Dr. Pulse have examined approximately 130,000 cases of diseased oral tissue, and their library, containing slides of the biopsies they have diagnosed, makes up a wealth of useful teaching material. Oral pathologists, notes Dr. Zegarelli, must have a very comprehensive knowledge of disease, because even though most of their patients are referred for information on diseases of oral mucosa, the microscope can sometimes reveal another problem. Dr. Zegarelli says he must always ask himself: "Am I dealing with something that is a nuisance (chronic) or a threat?"

Although he also loves the work of examining pathogens under the lens, Dr. Zegarelli describes himself as an extrovert—"a people watcher"—who enjoys seeing patients and interacting with them immensely. Because so much of his work can be involved with various forms of oral cancer, many of his patients may be extremely anxious, and Dr. Zegarelli finds that his ability to allay their fears can sometimes overshadow the importance of his skills in the precise science of his discipline.

SMEP/STEP INCREASING MINORITY PARTICIPATION IN ORAL HEALTHCARE

Richard Ansong entered the School of Dental and Oral Surgery this fall with the class of 2008. Born in Ghana, Richard left Africa for the United States five years ago with his parents and three brothers. All of them, he says, were determined “to get educated.” Mr. and Mrs. Ansong promised their children they would have the lives they wanted, but that they must get schooling to do so.

As the oldest of the Ansong children, Richard was the first to pursue a degree, and graduated from Queens College this year. His college counselor, recognizing the young man’s intelligence, told him “you must use your potential,” and suggested he apply to the Summer Medical Education Program (SMEP), administered by the College of Physicians & Surgeons’ Office of Minority Affairs and Diversity at Columbia. An intensive, tuition-free, six-week residential program, SMEP provides highly qualified participants with academic preparation and advanced study-skills training in both the basic and clinical sciences. The Robert Wood Johnson Foundation (RWJF) established the program in 1988 in response to an acute disparity between the percentage of ethnic minorities in the American population relative to the number of minority physicians in the nation. SMEP was intended as a way to increase the number of minority students—especially African-Americans, Hispanics, Native Americans, and certain participants from disadvantaged backgrounds in areas where medical access is very low—who graduate from medical schools in the United States. That original mission has now been

expanded—perhaps because of Richard Ansong.

When Richard was accepted in the 2002 SMEP program at Columbia, he soon became intrigued by the science presented. He also discovered, however, that he alone among his 108 fellow students was strongly interested in one particular area of health care: Richard wanted to know more about dentistry. Oral medicine interests him, because, he says, it has been ignored. “It is one aspect of health care,” that he believes has been “abandoned throughout the world.” As proof, Richard points out that of every 100 medical professionals, only five are dentists.

So, Richard Ansong asked the SMEP program directors at Columbia to let him do some of his summer’s work at the Dental School, and the request was granted. When his fellow students were participating in cardiology or neurology or orthopedic surgery rotations at P&S, Richard was also in the OR. But, he was watching with fascination as a team of dental surgeons worked for hours on the maxillofacial problems of a 160-pound, 12-year-old boy who still had all his baby teeth, a condition that was causing him to have seizures.

Dental School faculty members, Dr. Dennis Mitchell and Dr. Marlene Klyvert, who have been instrumental in implementing many of the innovations with which SDOS encourages minority participation in dental programs, arranged for Richard to spend time with each of the oral health care specialties. After moving through the dental disciplines one-by-one, from endodontics to periodontics, Richard says he realized that “dentistry isn’t all



Richard Ansong '08, far right, with his parents and two brothers.

about cleaning and fillings." It was an insight that made him more than ever eager to become a dentist. So, when the time came for RWJF representatives to evaluate SMEP at Columbia, the young dental enthusiast spoke up about his solo experience at SDOS, describing how impressed he had been by the dental school faculty and the quality of their teaching.

Whether Richard Ansong's zeal for dentistry provided the impetus or not, RWJF decided that the same disparities affecting medical health care were "even more disparate in dental health." Their response was to introduce a dental pilot program in 2003 at two of the 11 SMEP schools, Washington University on the West Coast and Columbia University on the East Coast. The two were chosen because they are also sites for Pipeline, Profession and Practice: Community-Based Dental Education (Pipeline). Another RWJF-funded organization, Pipeline is helping to solve what the *2000 Surgeon General's Report on Oral Health Care* called "a silent epidemic of oral disease affecting poor children, the elderly and many members of racial and ethnic minorities," by boosting underrepresented minority and low-income student enrollment numbers in dental schools.

Allan Formicola, DDS, MS, former dean of the

School of Dental and Oral Surgery at Columbia, is one of two directors for Pipeline's five-year, \$1.5 million initiative, which also has its national headquarters at Columbia. Dr. Mitchell, an assistant dean at the School and well-known in upper Manhattan for his work in establishing the SDOS Community DentCare Network, which delivers dental care to the underserved, is a member of Pipeline's National Liaison Committee, and also helped to initiate the SMEP dental pilot program at Columbia.

The SMEP dental pilot program, now located in SDOS's new Office of Diversity and Multicultural Affairs, with a total of 19 African-American, Asian-Pacific, and Hispanic students from undergraduate schools across the nation participating during the past two summers, has just celebrated its second graduation. When SMEP graduates were asked to explain what made them decide to pursue a career in dentistry, they cited a number of reasons, but most often replied that they were impressed by the enthusiasm dentists showed for their work. One student, originally in premed studies, changed career directions after shadowing two dentists, whose rapport with patients and general happiness were major selling points. Four SMEP students are now enrolled as DDS candidates at SDOS.

Pipeline and SMEP are actually newcomers to

Dr. Dennis Mitchell, recently appointed to the post of assistant dean for diversity and multicultural affairs at the School of Dental and Oral Surgery.



the dental school's efforts in addressing the lack of diversity among those entering dentistry. For the past 18 years, the School has been mentoring secondary students in their journey toward higher education through its Science and Technology Entry Program, known as STEP. Columbia's STEP program, which is directed by Dr. Klyvert, accepts students from both middle school and high school. STEP offers classes in math and science on Saturdays from October to May, and gives a one-month summer session as well. SMEP participants are taught and mentored by preceptors who are preparing to enter the dental profession. Following his summer in SMEP, Richard Ansong, received a STEP grant which allowed him to return to Columbia as a tutor in the program. He was especially happy to fulfill this role because one of his younger brothers was a STEP student at the same time that Richard was helping to teach there. The value of SDOS's precollege science program was recognized in 2003 when, with a group of similar New York State-funded programs, STEP received a Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring.

The School of Dental and Oral Surgery has earned a national reputation for its commitment and contributions to overcoming the educational

discrepancies that prevent minority and low-income populations from receiving oral health care that is on a par with the rest of the United States. Just as STEP provides an incentive for minority high school students to increase their proficiency in science, SMEP offers opportunities for college and postgraduate students from minority backgrounds to experience the requirements for advanced health care education. The Pipeline program then looks ahead to supporting universities in their recruitment of academics drawn from the increasingly diverse pool of medical and dental health care professionals made possible through the efforts of STEP and SMEP.

Richard Ansong, DDS '08, may well be among those new recruits.

Dr. Marlene Klyvert, who directs the Science and Technology Entry Program at SDOS.



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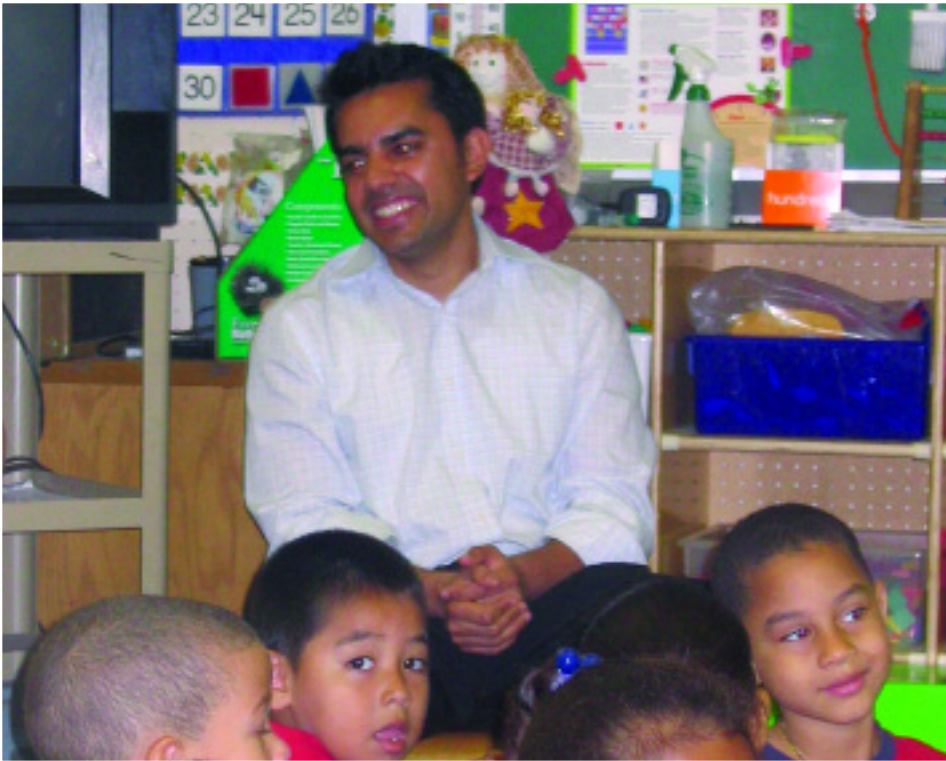
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Alumni and School News

Celestine Fernandez '04,
president of the Student Council,
at the University Commencement Ceremony





Members of the Student National Dental Association (SNDA) held their first summer community service event on June 1, entertaining and educating eight classes of first-graders at PS 128. Dental “goodies” were handed out to all 200 children who attended, according to Katayoun Yaraghi '05 (top right), SNDA Community Service Coordinator. Pediatric dental literature was provided by Eva Matos, administrative coordinator for Community Dentcare. Rinku Saini '05 (above), STEP education coordinator and student mentor, organized the event, with the enthusiastic participation of Toral Ghandhi '05 (the dino) and Yonni Schwartz '05 (right).



Timothy A. Turvey '71

A STUDY IN STABILITY

DR. TIMOTHY TURVEY '71 describes himself as a “runner, hiker and gardener,” but he is also a dedicated healer, who chairs the department of Oral and Maxillofacial Surgery at the University of North Carolina School of Dentistry and the UNC Hospitals in Chapel Hill. Born and raised on Staten Island, Dr. Turvey took the ferry to Manhattan after graduating from high school and then kept on going to Pennsylvania, where he attended Villanova. In 1967, he decided to return to New York to earn his DDS at Columbia. Although partly drawn to the university because his brother studied at Columbia Law School, he was also impressed with the dental school's reputation. After completing his DDS at SDOS, Dr. Turvey left New York once more—this time for the South. There, he completed an internship and residency in Oral and Maxillofacial Surgery at Parkland Memorial Hospital in Dallas.

By 1976, Dr. Turvey had joined the oral and maxillofacial faculty at UNC as an assistant professor. In the same year he became the co-director and co-founder of the UNC Dentofacial Program. Today, he remains the head of that program, supervises residents in Oral and Maxillofacial Surgery, and is a leading participant in the university's Craniofacial Center.

Dr. Turvey's reputation for success in craniofacial surgery ranks high among his colleagues and with his patients. Recognized internationally for his contributions to craniofacial surgery for children, Dr. Turvey was one of the distinguished guests invited

to participate in the first meeting of the Smile Train, an international charity organization dedicated to the eradication of cleft lip/cleft palate deformities. The meeting was held in China in 2000, with former president George Bush as its major speaker in support of the cause.

Dr. Turvey's focus on congenital craniofacial birth defects sometimes takes him to Brazil to help reconstruct faces of children with such deformities. More often, however, he and his team try to arrange for these children to come to the UNC Hospitals so that they can have the benefits of the more advanced surgical methods available in the United States. Dr. Turvey and his colleagues are, perhaps, best known as recipients of the longest continually funded grant from the National Institute of Dental and Craniofacial Research. The study, now in its 24th year, has compiled a data bank of almost 5,000 cases to examine the “long-term stability of orthognathic surgery.” The research, derived from data based on standardized reporting, is of great interest to surgeons and orthodontists for its ability to predict which procedures are most likely to succeed in correcting specific deformities, and to show reasons why some procedures should not be used.

Dr. Turvey still keeps in close touch with SDOS, where, in 1990, he was chosen as the School's first recipient of the Distinguished Lecturer Alumni Award.



Timothy Turvey '71,
chair of the Department of
Oral and Maxillofacial Surgery
at the University of North Carolina, Chapel Hill.

Paula K. Friedman '74

EXCELLING IN EDUCATION AND ADVOCACY

PAULA FRIEDMAN '74, MSD, MPH, has sometimes found herself achieving goals she had not originally planned to pursue, but has enjoyed every minute of each unexpected outcome.

Dr. Friedman entered the University of Massachusetts, for instance, intending to become a behavioral psychologist. Realizing, however, that by going into dentistry she could combine biomedical science and working with people, she refocused: dentistry provided the flexibility necessary for family life. "Still," she says, "I find what I learned [in psychology] useful today."

Dr. Friedman describes having "a wonderful experience at SDOS," where she met her future husband, a student at P&S. Next, as the sole woman among seven residents selected for a one-year residency at Beth Israel Medical Center in New York City, she says she gained "invaluable" professional insights.

Although never envisioning a life in academe, once again, the young doctor surprised herself. Her residency program director, Dr. Charles Barr, advised her to discuss an opening at Fairleigh Dickinson if only for the "professional experience of doing an interview." When offered the position, she accepted, but also established her own private practice. Boston University recruited her three years later, and Dr. Friedman did not hesitate. She is now celebrating 26 years at Boston University Goldman School of Dental Medicine, where she is a full professor, director of the Geriatric Dentistry Program,

and associate dean for administration. Dr. Friedman, who finds the "rewards of academic life unparalleled," also earned MSD and MPH degrees from the university.

Of her many honors, Dr. Friedman counts the ADEA's Harry Bruce Legislative Fellowship for 2001 among those topping the list. It gave her three months in Washington, DC, learning to advocate before Congress for dental education and public policy, and to work with Congressional health staffers. Two years later, as president of the American Dental Education Association for 2003-2004, she put her national credentials to use, advocating for advancing primary care, geriatric dentistry, and mentoring support—especially for minorities in the health professions—as well as maintaining Graduate Medical Education (GME) funding in dental school-based residency programs.

Dr. Friedman often travels to speak on national advisory panels and serves on federal grant reviews. In September, she will lead a delegation of dental educators to China (Beijing, Xian, and Kunming) to exchange current knowledge and practices in dentistry and public health. And, because her three grown sons, two of whom are twins, are scattered from Shanghai to London to California, there will surely be even more traveling for this very busy doctor, administrator, teacher—and mother.



Paula Friedman '74, ADEA president 2003-04, with Saleem Josephs '06 and Jessie Chang '05, who received the Listerine Preventive Dental Program Awards at the 2004 ADEA meeting.

Alumni Notes

Dean Ira Lamster with
Dr. M. B. Gillman '24



M. B. GILLMAN '24, who recently celebrated his 102nd birthday, entertained Dean Ira Lamster at his Fort Lauderdale, Florida, home in February. In addition to his DDS from Columbia, Dr. Gillman holds a JD from Brooklyn Law School, where he graduated with the class of 1931. A practicing orthodontist in New Hyde Park, New York, for 50 years, Dr. Gillman was dedicated to community service and was instrumental in starting the New York State dental/medical health plan that was a precursor to the modern day HMO. He was a leading authority on dental malpractice and often acted as an expert witness in legal proceedings. Dr. Gillman, who has three children, seven grandchildren, and three great-grandchildren, spends his days in Florida surrounded by his books, family and friends.

STANLEY KENT '44 divides his time between Black Mountain, North Carolina, and Longboat Key, Florida, where he enjoys the cultural experiences offered in nearby Sarasota. He plays competitive tennis on three club teams for members aged 70+, 75+, and 80+. As its oldest resident combat zone WWII veteran, Dr. Kent was recently asked to raise the American flag for the dedication of a new flagpole in his compound. Dr. Kent conveys his best wishes to all of his classmates.

DAVID MARSHALL, ORTHO '45, has appeared in *Who's Who in the East, America and the World*, the *Dictionary of International Biography*, and *A Thousand Men of Achievement*. He was honored by the International Biographical Center Institute and received the World Lifetime Achievement Award from the American Biological Institute. Dr. Marshall also received the Hefstoeten Medical Award in Research at the 1973 American Medical Association Meeting.

WILLIAM R. GOLTERMAN '55 retired last fall after 48 years of practicing in Great Kills, Staten Island. A crusader for his profession, Dr. Golterman fought successfully to gain fluoridation of the city's water supply in the 1950's. His efforts helped to initiate modern dental facilities at the Mission of Mount Loreto in Pleasant Plains, where he served more than 1200 children as director of dental services, and worked to make dentistry an integral part of Staten Island University Hos-

DEAR DEAN LAMSTER,

Recently, my dad, Joseph Markowitz '43 and I, class of 1979, received the book, *75 Years at the Medical Center*. Thank you so much for getting that book out to Columbia's alumni.

My dad has been suffering from advanced Alzheimer's disease. His short-term memory is gone; however, when we probe, his long-term memory can come alive. The time we spent going through that book together was a treasure. Life in a memory-loss lockdown unit of an assisted living home can be difficult at best. The pictures brought my dad back to his Columbia days. His visit with classmates and friends, including Bob Gottsegen, Jack Abelson, John Lucca, and Ed Zegarelli, made for the best day we have had in a very long time.

Thank you so much for helping me to help him. Please keep up the great job you are doing. I look forward to seeing you and my classmates at my 25th year reunion this May.

SINCERELY,

HOWARD S. MARKOWITZ '79

pital. With his wife, Dolores, he helped organize and establish a dental service in the Eger Health Care and Rehabilitation Center at Egbertville, where he was director of dental services and a member of its medical board. Dr. Golterman is a founder of the North Shore Dental Study Group and former president of the Richmond County Dental Society, which presented him with a Lifetime Achievement Award in 1995. He has seven children and one stepson.

JAMES N. CLARK '64 has been a volunteer consultant and member of the Advisory Council at the New Jersey Department of Corrections since 1995. He has served on the Essex Vincinage Advisory Committee on Minority Concerns in the Judiciary since 1997, and been a member of the Board of Trustees of Ramapo College in New Jersey since 1981, where he was 1st vice president of the executive committee and chairman of the board. He is currently on the Board of Governors.

HAROLD SUSSMAN '64 has received a patent for an implant guide device. His invention makes it possible for dentists to place fixtures accurately in the jawbone. Imtec, a dental implant company, has offered Dr. Sussman a licensing agreement to market the guidance system, which will be produced as the "SIG Kit." Dr. Sussman, who is a clinical professor of periodontics at NYU College of Dentistry, has a home office in Scarsdale, where he has lived for the past 26 years.

JOHN E. FEENEY '75 was honored in August 2003 at the Annual Meeting of the National Foundation of Dentistry for the Handicapped for his work in providing free dental care to patients with disabilities. Dr. Feeny accepted a Presidential Proclamation on behalf of the 775 New Jersey doctors who donate their time and expertise in this way. Dr. Feeny is president of the New Jersey Foundation of Dentistry for Persons with Disabilities, which leads the nation in the number of doctors and patients who are involved annually in such programs.

CLAUDIA A. HOHN '79 has been devoting much of her time to breeding, raising and training Polish Arabian horses in Tampa, Florida.

STEWART K. LAZOW '79 is currently professor, vice chairman, and Residency Program director in the Department of Oral and Maxillofacial Surgery at Kings County Hospital, SUNY, Brooklyn.



above, left: A Young Alumni Reception was held at the Mica Bar on April 15. Pictured are: Ji Sir Park '01, Celestine Fernandez '04, Rinku Saini '05, and Jason Vives '03. **left:** Members of the Class of 2002 at the Young Alumni Reception: Gabriella Hricko, Michelle Kreiner, Stacey Tunney and Jonathan Mender. **above, right:** More than 30 alumni gathered at a reception held at the ADA Meeting in San Francisco in October. Pictured are: Ali Rezai '01, Vince Chiappone '03, and Dan Allen '04.

A Student & Alumni Mentor Reception was held at the West End Café on April 29. Alumni mentors pictured: Al Thompson '60, Mayra Suero-Wade '88, and Charles Berman, Perio '57.

THE COLUMBIA UNIVERSITY CLUB OF NEW YORK

Located in the heart of Midtown Manhattan at 15 West 43rd Street, the Club offers membership to all Columbia alumni, as well as to all current Columbia faculty, administrators, graduate students, undergraduate students, and certificate holders.

The Columbia University Club of New York is proud to offer its members a host of excellent services including:

- Access to lectures, concerts, business seminars, and social and inter-club events
- Formal dining in the President's Room and casual dining in the Bar & Grill
- Fully-equipped athletic facility and two international squash courts
- 50 overnight rooms including two new suites
- Members' lounge, library, and full conference and catering facility
- Business center and wireless technology throughout the Club
- Reciprocity at some of the finest private clubs around the world

For additional information or a membership application, please visit our website at <http://www.columbiaclub.org>, or call us at 212-719-0380.



Members of the Class of 1983 at the January Alumni Reception at the Boston Yankee Dental Congress. Pictured are Dan Zedeker, Ellen Karandisecky, Joe Williams and John Herzog



Also at the reception were Winston Kuo '93, Howard Markowitz '79 and Dean Ira Lamster.



Colleagues, friends, and family gathered at the Faculty Club in March to honor Steven Roser at his farewell reception: Louis Mandel, assistant dean for Extramural Hospital Programs; Steven Roser, former director, Division Oral & Maxillofacial Surgery & Hospital Dentistry; Dean Ira Lamster, and Sidney Eisig, director of the Division of Oral Surgery and chair, Section of Hospital Dentistry.

Dean Lamster was the host for an alumni luncheon in February at Charley's Crab in Palm Beach.



FRANCIS E. NASSER, JR. '79 is a retired Colonel in the U.S. Army Dental Corps, having served over 23 years on active duty. A veteran of the Persian Gulf War, Dr. Nasser was twice awarded the Legion of Merit, and received the Army Surgeon General's "A" Designator for professional excellence. In 1996, he earned a Masters in Healthcare Administration from Baylor University. Dr. Nasser holds a Masters from the Academy of General Dentistry, he is a Fellow in the International College of Dentists, and currently serves as chair of the Dental Education Council for the Academy of General Dentistry. He maintains a private practice in Fall River, Massachusetts, and is a part-time clinical instructor at Tufts University School of Dental Medicine. Although married only recently, Dr. Nasser and his wife, Kathleen, first met at Columbia in 1976. Twenty-five years later, they met again—and wedding bells rang!

MARK S. OBERNESSER '84 practices periodontics and implantology in Akron, Ohio, where he enjoys playing golf and spending time with his wife, Carole, and their three children, who are nine, eleven and thirteen.

GABRIELA LEE '87 was installed as secretary of the New York County Dental Society during January ceremonies at the Roosevelt Hotel in New York City. Dr. Lee recently joined the School of Dental and Oral Surgery Dean's Advisory Council.

PENELOPE CHANG '96 organized the Third Annual Henry Chang, Jr. Memorial Golf Outing, held in May at the Golf Club at Mansion Ridge in Monroe, New York. Established in memory of her father, **HENRY CHANG '74**, a former faculty member at SDOS, the outing attracted more than 50 friends, colleagues and family members. Proceeds from the annual golf outing will support a scholarship fund at SDOS.

JONATHAN SHENKIN '96 received the NIH Plain Language Award (Honorable Mention) for a paper on which he was the lead author, entitled "Attitudes of pediatric dentists toward tobacco intervention for children and adolescents: a pilot survey," which appeared in the January-February '03 issue of *Pediatric Dentistry*.



Class of 1979: Francis Nassar, Lawrence Sullivan, Rhona Stanley '80, Emanuel Tennenbaum, Ann Lee, Robert Tracey, Natalie Amann, Stuart Lazow, Ronnie Myers (class representative).

CLASS REUNION DAY WAS HELD AT THE SCHOOL ON MAY 7. THE DAY INCLUDED FACULTY PRESENTATIONS, TOURS OF THE SCHOOL AND A RECEPTION HELD AT THE ARMORY TRACK & FIELD HALL OF FAME.

Class of 1964: Allan Silverstein, Joseph Osipow, James Clark, Kenneth Siegel (class representative).



above: Class of 1989: Top: Mark Obernesser, Marshall Fleer (class representative), Greg Lituchy, Howard Bloom, David Lynn, Louis Menendez, Chaim Wexler, David Caponigro, James Murphy. Bottom: Denise Shapiro, Mali Hung, Zion Chen, Jacqueline Crane, Abbe Silverberg, Barry Viola, Robin Taubman, Clifford Hames, Daniel Klein, Stuart Kesner.

center: David Pitman, Perio '88, received a plaque of appreciation from Dean Lamster, honoring him for concluding his two-year term as president of the Alumni Association.

right: Class of 1999: Sonia Kohli, David Wong, Maxine Vu.

Class of 1939: Dean Ira Lamster made a special presentation to Harold Dattner who traveled from Florida with his wife for the reunion.



above: Class of 1954: Eugene Tedaldi (class representative), Anne-Marie Tedaldi, James Parlapiano, Warren Nadel, Susie Nadel, Richard Messina, Evie Granger, Ronald Granger.

left: Class of 1974: Back row: Ira Spector, Jeffrey Altman, Orret Ogle, Steven Haber, Bruce Kaplan, Allan Wasserman, Leonard Skope, Thomas D'Agnes Middle: Al Kurpis, Nathan Shapiro, Stuart Epstein (class representative), Lucian Kahan, Martin Davis (class representative) Front: Samuel Cohen, Louiza Puskulian (class representative)



School News

SDOS DENTAL CARE POLICY MAKERS GAIN ATTENTION IN HALLS OF CONGRESS

In early June, **DR. BURTON EDELSTEIN**, chairman, Section of Social and Behavioral Sciences, SDOS, spent time in Washington working to improve federal policy for reducing disparities in dental care among underserved populations. Dr. Edelstein orchestrated a briefing for 65 bipartisan House Legislative Health Staff in Washington, an event covered in an *ADA News* front-page story. Columbia alumni, faculty and students in attendance included:

LAWRENCE A. TABAK, '77, PHD, director of the National Institute of Dental and Craniofacial Research, **MARCIA IRVING-RAY**, assistant clinical professor in the Section of Social and Behavioral Sciences, board member, National Dental Association, and dental director, Harlem United Community AIDS Center, all of whom joined Dr. Edelstein as speakers. Columbia 2004 ADEA Fellow **DENISE HOW '91, PERIO '93**, associate professor of clinical dentistry in the Division of Periodontics, was in the audience. Six members of Congress acted as hosts for the briefing, which was attended by representatives of all the major national general dental groups.

In the same period, the Children's Dental Health Project (CDHP), an organization founded by Dr. Edelstein, arranged for National Basketball Association star Eric Williams of the Cleveland Cavaliers to visit the Department of Dentistry at Children's Hospital National Medical Center. Williams has established the Boston-based Believe in Me Foundation to promote dental care for low-income kids, and is becoming a nationally recognized spokesperson for the importance of children's dental care.

Dr. Edelstein and his colleagues also worked with

the ADA to ensure that the US Senate Bingaman/Cochran "Children's Dental Health Improvement Act" was introduced in the House of Representatives by Congressmen Mike Simpson (R-Idaho), who is a dentist, and John Dingell (D-Michigan).

The Chicago Dental Society will present its Cushing Award for "raising public awareness of oral health issues" to Dr. Edelstein during the opening ceremonies of its 2005 Midwinter Meeting in Chicago in February.

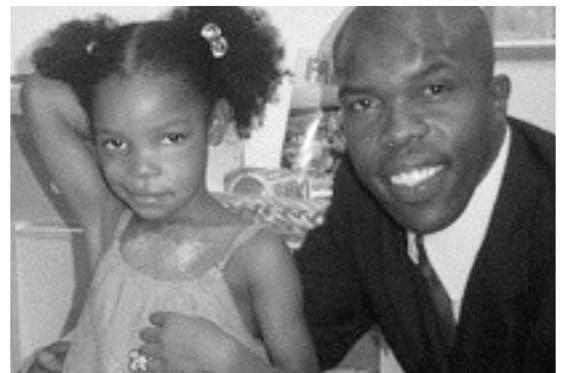
MACY FOUNDATION GRANT TO SDOS SUPPORTS DENTAL EDUCATION STUDY

A three-year, \$460,000 grant from The Josiah Macy Jr. Foundation to the Center for Community Health Partnerships at SDOS will provide resources for addressing potential changes in today's system of educating dental students. Because of declining public support and the need to incorporate new scientific and technical knowledge into the curriculum, dental education faces serious financial and educational challenges. Working with dental educators, practitioners, and the larger community, project participants will examine the viability of new models for dental education. **DR. HOWARD BAILIT** and **DR. ALLAN FORMICOLA**, former dean of the dental school, co-directors for the Center for Community Health Partnerships, will direct the study.

SDOS STUDENTS RECEIVE NATIONAL DENTAL HONORS

MELODY AHDOOT '05 was selected to represent SDOS at the American Medical Student Association Foundation's 2004 Primary Care Leadership Training

National Basketball Association star Eric Williams of the Cleveland Cavaliers, and a young friend in the Department of Dentistry at Children's Hospital National Medical Center.



Program in August in Seattle. The theme of this year's program is "Health Disparities and the Health Workforce."

MARY BETH GIACONA '04, currently a resident in pediatric dentistry, was selected by the American Association of Women Dentists as the 2004 recipient of the Colgate-Palmolive Award. This award is presented to junior and senior dental students who have shown academic distinction and demonstrated excellence in research.

MAGNON IVAN REYES '05 participated in an otolaryngology head and neck surgery clinical elective at the National Institutes of Health this past summer. Mr. Reyes is the first dental student ever accepted as a participant in this clinical elective.

SDOS PEDIATRIC FACULTY HOLD NATIONAL POSTS

Four faculty members from Columbia University Medical Center's School of Dental and Oral Surgery were named to top leadership positions at the Annual Session of the American Academy of Pediatric Dentistry in San Francisco in May.

STEVEN CHUSSID DDS, associate professor of clinical dentistry and division director of Pediatric Dentistry at the School of Dental and Oral Surgery, was appointed to represent District I for the Health Resources and Services Administration's (HRSA) Oral Health Initiative. The Oral Health Initiative seeks to eliminate disparities in oral health status based on economics, and assure access to oral health services for low-income children.

MARTIN DAVIS '74, associate dean for the School of Dental and Oral Surgery, has been elected to the Executive Committee of the Pediatric Dental Section of the American Academy of Pediatrics. Formerly president of the American Academy of Pediatric Dentistry (AAPD), Dr. Davis has also been named the District I (Northeastern US) member of the AAPD Council on Predoctoral Affairs.

JED M. BEST DDS was named a national adviser for Oral Pathology and Oral Medicine to the American Board of Pediatric Dentistry (ABPD). Dr. Best is an associate clinical professor at the School of Dental and Oral Surgery.

MARGOT H. JAFFE PEDI '80, ORTHO '85 was also appointed a national ABPD advisor. Dr. Jaffe, who is an assistant clinical professor at the School of Dental and Oral Surgery, is serving on the ABPD Board's Growth and Development group.

LOIS JACKSON '77, assistant clinical professor



Associate Dean for Academic Affairs Letty Moss-Salentin presented Professor David Zegarelli, director of oral pathology, with the Edward V. Zegarelli Teaching Award, which is named for his late father, who was Dean of the School.

Dr. Eugene Sekiguchi, ADA President, was guest speaker.

Pejmon Amini, 2004 class representative, presented remarks.

Professor Emeritus John Lucca '45 (seated second from right) watched his grandson, Justin Morris, graduate. He was joined by his daughter, grandson, and faculty members Lou Rubins and Mark Tenner (seated front left).

GRADUATION FOR THE CLASS OF 2004 WAS HELD ON MAY 20.



below: Sandra Burkett '97, assistant director of primary care in the Division of Community Health at SDOS, appeared as a "Young Lion" in a photo of graduates of Columbia's 15 schools from the Spring 2004 *Columbia Magazine*. The article highlighted prominent alumni living in New York.





The Student Council held a Spring Formal for all students and faculty at Tavern on the Green on April 17. Pictured are: Azadeh Mottekalleem '07, Melody Ahdoot '05, Richard Fernandes '05, Cristina Georgescu '07 and Ali Sami '06.



Assemblyman Herman D. Farrell (third from left, standing) and SDOS Dean Dr. Ira B. Lamster (sixth from left, standing) are shown with faculty, staff, dental students and children, participating in Give Kids a Smile Day at Columbia University School of Dental and Oral Surgery. Assemblyman Farrell presented Dr. Lamster with a proclamation noting SDOS's commitment to providing dental care for underserved families in northern Manhattan.



Angela Lee '06 on violin.

Theresa Fan '04 sings with a medical center A Capella group.

STUDENT PERFORMANCES WERE FEATURED AT THE PROFESSIONAL SOCIETY RECEPTION HELD IN FEBRUARY.

Sherrie Lai '05 and faculty member Mark Tenner '62 lead a piano sing-along.



of dentistry at the School of Dental and Oral Surgery, has stepped down after completing three successful years as the District I Trustee for the HRSA.

DR. MITCHELL APPOINTED DEAN TO HEAD MULTICULTURAL AFFAIRS

DENNIS A. MITCHELL, DDS, MPH, has been appointed assistant dean for diversity and multicultural affairs and director of community-based education within the Columbia University School of Dental and Oral Surgery.

Dr. Mitchell will be responsible for identifying funding opportunities to support these programs, as well as for coordinating and managing the SDOS Underrepresented in Dentistry Program and the Minority Faculty Development Program. As director of the Harlem component of the Community Dent-Care Network at SDOS, he was instrumental in establishing a community-based dental service program that offers Harlem and Washington Heights residents increased access to quality dental services. He says, "The disparity in levels of oral disease between people of color and the impoverished is severe. Ultimately, SDOS should be a part of the creation of dentists—of all races—who can help to address the need for dental services in those communities." His new titles are effective July 1.

BIRNBERG STUDENT RESEARCH DAY MARKS 50 YEARS OF PRESENTATIONS

The dental school celebrated the 50th Anniversary of the Birnberg Student Research Days on April 21st and 22nd. Twenty predoctoral and ten postdoctoral students presented their research to fellow students and faculty.

The first-place award for predoctoral research was given to ELENI MICHAILIDIS '06, who presented her work on "Fine Mapping of the Locus for Autosomal Recessive Hypodontia with Associated Dental Anomalies Maps to Chromosome 16q12.1." Eleni will represent the school at the 2004 ADA-Dentsply Student Research Competition.

Second place went to JEFFERY LIN '06, for "TGF-beta Regulates Mucosal CD4+CD25+ Regulatory T cells by Enhancing Migration," and DAVID WEBB '06 took third place for "Understanding the Molecular Interactions of NaV1.8 Involved in Neuropathic Pain."

DOROS PICOLOS, PERIO '04, won the postdoctoral research award for "Infection Patterns in Chronic and Aggressive Periodontitis."

The Birnberg Research Award was presented to Dr. Paul Robertson, dean emeritus and Washington Dental Service Distinguished Professor at the University of Washington, School of Dentistry. Dr. Robertson is also the current President of the International Association for Dental Research (IADR). He spoke on the "Future of Clinical Dental Practice."

CENTER FOR CLINICAL RESEARCH ENTERS HERBAL GUM CARE TRIAL

The Center for Clinical Research has been awarded a contract by Herbal Synthesis Corporation to conduct a clinical trial on a novel herbal product that inhibits gingival inflammation. **WILLIAM LEVINE '83, PERIO '85**, a graduate of the dental school and its periodontics program, is the Chief Executive Officer of Herbal Synthesis Corporation, which is based in Israel.

DR. RONNIE MYERS JOINS NY STATE BOARD

SDOS Associate Dean **RONNIE MYERS DDS** has been appointed to the New York State Board of Dentistry, which advises the Board of Regents and the Education Department on all aspects of professional education, licensing, practice and discipline. Board members, who serve for five years, make a major contribution to professional regulation in the state. The appointment is made by the Regents of the University of the State of New York.



On May 4, 2004, Dean Ira Lamster was host for a reception at which he announced a new initiative in Geriatric Oral Health at SDOS. The occasion marked the leadership role of SDOS in meeting the oral health needs of the elderly, beginning with the publication of articles by five School faculty on topics covering education, research, clinical care and policy concerning these needs, in the May issue of *The American Journal of Public Health*. Seen here are Dean Lamster with Dr. Saul Kamen, age 88, now deceased, associate clinical professor of dentistry (see p. 28), Mary Northridge, Editor-in-Chief of the *American Journal of Public Health*, and Kavita P. Ahluwalia, assistant professor of clinical dentistry.

VOLUNTEERS WANTED!

The predoctoral clinical programs and the predoctoral preclinical laboratory programs are always in need of experienced general practitioners or specialists to teach, mentor, and supervise our DDS candidates.

There is no experience for a predoctoral student that is better than a one-on-one discussion with a qualified practitioner. Indeed, these experiences can often change a student's life. Moreover, there is no experience that is more satisfying for a practitioner than to be a mentor to a student.

Help to give our students something that they cannot get from a book or CD.

We have only a few requirements:

1. A regular commitment of one day per week;
2. Review and utilization of SDOS technique;
3. Positive reinforcement;
4. Active New York State License.

Call or e-mail
Dr. Richard Lichtenthal at:
212-305-9898
rml1@columbia.edu



Chair of the Section of Growth and Development and Director of the Division of Orthodontics Dr. Thomas J. Cangialosi has just completed a term as president of the American Board of Orthodontics. He was presented with a crystal globe on the occasion of the ABO's 75th anniversary by Dr. James Caveney, president of the American Association of Orthodontists, at the AAO's annual meeting in May 2004.

Obituaries

Muriel C. Harris Watt, Hyg '32

Harold Leegant '32

Herman Reich '35

Milton R. Ellis '37

Irving Reiser '38

Robert Mason '39. Dr. Mason's daughter, Marilyn Mason Burr wrote the following:

"My father was proud to be a Columbia graduate. He was an active participant in alumni activities and maintained contact with several classmates. Not long ago he successfully located all but one of the surviving members of his class. He was very much interested in the growth and development of the dental school even though he could no longer travel to events in Manhattan."

Raymond O'Connell '40

Robert Reiss '40

Louis Drucker '42

Sol Hopengarten '43. Dr. Hopengarten's son Fred, wrote the following:

"Sol was known as "Hoppy" to his friends and family. He established a solo practice in Boston- no receptionist, no hygienist, no secretary, no billing person- a true solo practice. He remained there for fifty-six years, until the age of 82, well after many would have retired. He said it got him out of the house and allowed him to continue the manual work of dentistry, which he truly enjoyed all of his life. My father truly enjoyed dentistry, and the ability to make people smile again. He left his practice only when his lymphoma made it impossible to continue. I know he would want me to thank the School of Dental and Oral Surgery for making a wonderful life possible."

Boaz Shattan '43. Dr. Shattan joined the faculty at SDOS in 1954. In 1993 he was appointed Special Lecturer:

William Lavori '44

Jean Lewis, Hyg '54, The D. Jean Lewis Memorial Scholarship Fund has been established by Tunxis Community College in Farmington, Connecticut, in honor of Jean Lewis who was a professor of dental hygiene there. The fund was set up to commemorate Jean's life and her many achievements at the

College and in the community. Jean served as past president and past legislative chair of the Connecticut Dental Hygiene Association and was a delegate to the National Dental Hygiene Convention. She received the Mable C. McCarthy Award for her outstanding contribution to the profession of dental hygiene.

Harold E. Marshon '56

Morton J. Stern, Oral Surgery '58. Dr. Stern was an associate clinical professor of dentistry at SDOS in the Division of Oral Surgery. He served on the faculty for over 40 years.

Robert Sacks '62

Robert I. Kaplan, Perio '64

Jack H. Goetz '69, Perio '71

Farhad Najji '02

We are sad to report the unexpected death of SDOS graduate, Dr. Farhad Najji, who died in his sleep on August 5, 2004. Dr. Najji was a member of the joint oral and maxillofacial surgery and MD program at UC San Francisco.

Dr. Saul Kamen, associate clinical professor of dentistry and a member of the Section of Social and Behavioral Sciences at SDOS, passed away on August 23, 2004. Dr. Kamen was Chief of Pediatric Dentistry at the Long Island Jewish-Hillside Medical Center for 30 years. Widely recognized for his contributions to pediatric and geriatric dentistry, Dr. Kamen was a special guest at the School's May reception announcing its new mission to improve oral health care for the elderly (see p. 27). He is survived by his sons, Dr. Paul Kamen '75, a member of the SDOS periodontics faculty, Dr. Leonard Kamen, Jonathan Kamen, his daughter, Rebecca Jarmon, and seven grandchildren. Dr. Kamen lost his wife, Helen, recently, as well as a fourth son, Michael Kamen, the well-known composer.

Events Calendar & CE Courses

Tuesday, November 30	Alumni Reception at Greater New York Dental Meeting 6:00 to 8:00 p.m. The Marriott Marquis.
Wednesday, December 15	<i>Effects Caused by Tobacco Products/Tobacco Cessation</i> [3 Credits]
Friday, January 14	<i>CEREC in 3D</i> [6 Credits]
Friday, January 23	<i>Practical Infection Control/ CPR Re-certification</i> [3 Credits per session]
Friday, January 28	Alumni Reception at Boston Yankee Dental Congress
Wednesday, February 2	<i>Incorporation of Implant Dentistry into the Established Dental Practice</i> [3 Credits]
Friday, February 11	<i>Periodontics and Restorative Dentistry</i> [3 Credits]
Saturday, March 5	<i>Patricia McLean Symposium in Dental Hygiene</i> [5 Credits]
Wednesday, March 16	<i>Orofacial Pain and TMD Disorders: Diagnostic & Treatment Considerations</i> [4 Credits]
Friday, April 1	<i>Precision and Semi Precision Attachments: When? Where? Why?</i> [3 Credits]
Wednesday, April 13	<i>The Root Surface: Diagnostic and Treatment Problems</i> [6 Credits]
Wednesday, April 13	<i>Birnberg Research Program Poster Presentations</i>
Thursday, April 14	<i>Birnberg Research Program Lecture and Awards Presentation</i>
Thursday, May 5	<i>Benjamin Tenenbaum Lecture in Periodontics</i>
Friday, May 6	SAVE THE DATE! SDOS Class Reunion Day, for classes ending in "0" and "5", from 1935 to 2000.
Friday, May 13	<i>Application of Lasers in Dentistry</i> [4 Credits]
Wednesday, May 18	<i>Columbia University Commencement</i>
Thursday, May 19	<i>SDOS Graduation Ceremony</i>
Friday, June 17	<i>Gerontology and Geriatrics: Dentistry for an Aging Population</i> [3 Credits]

The Office of Continuing Education is pleased to offer four convenient and low-cost on-line courses, developed in association with Arc Mesa Educators. They are available on CD-ROM and at www.arcmesa.com/columbia.

Infection Control in the Dental Office	[3 CE Credits] \$60
Tobacco Cessation for the Practitioner	[3 CE Credits] \$60
HIPAA Privacy Standard: Implications for Health Care Delivery	[2 CE Credits] \$45
Risk Management	[4 CE Credits] \$75

For further information contact
ArcMesa customer service at 1-800-597-6372.

SDOS also offers self-study courses through a program with *Dentistry Today* magazine.
2 CE Credits can be earned each month at \$20 per credit. For information, contact *Dentistry Today* at 973-882-4700.

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Henry Nahoum '43

ACKNOWLEDGED AND HONORED


DR. HENRY NAHOUM '43 was born in New York City's Spanish Harlem neighborhood, where his parents had settled after emigrating from the ancient city of Salonica in Greece. When he was eleven, the family moved to Brooklyn where he went to high school and then graduated from Brooklyn College in 1940.

As a student at the School of Dental and Oral Surgery, Dr. Nahoum was not subject to the military draft of World War II, but he enlisted in the army as soon as he received his dental degree in 1943. He earned a commission as a 1st Lieutenant and served as a Dental Officer in a Combat Engineer Group, and with the 28th Infantry Division in Europe, where he earned two Battle Stars.

Following his wartime service, Dr. Nahoum

Although his extensive teaching and administrative responsibilities might have excused him from doing any writing, Dr. Nahoum published on a variety of subjects including: dental caries, periodontal disease, dental malformations and appliances. His research on pressure forming of thermal plastics to make appliances had a significant impact on the practice of dentistry. The result of his work simplified many existing procedures, such as making night guards or retainers. With it, he also initiated new methods for treating orthodontic patients. In 1959, Dr. Nahoum received a "patent pending" for his concept, which he then offered to Columbia University. The technology was later placed in the public domain.

In April of this year, the School recognized Dr.



Amir Abolfathi, vice president, research & development, Align Technology; Dr. Thomas J. Cangialosi; and Dean Ira Lamster (right), with Dr. Henry Nahoum at the reception given in his honor in April.

Dr. Nahoum was recognized for his research, which led to developing pressure-formed oral appliances.



practiced general dentistry in the Bronx for 10 years and then trained in orthodontics at Columbia. During that period, he was invited to join the SDOS faculty, where he supervised the Postgraduate Orthodontic Clinic for 20 years and was acting chair of the orthodontic division for three years. He served on the Committee of Admissions for the School for 20 years and was chair of Admissions and Financial Aid for 10 years. Dr. Nahoum was also an Attending Dental Surgeon at the Presbyterian Hospital, where he helped to train residents in orthodontics and plastic and reconstructive surgery, and was a member of the cleft lip/cleft palate team. Dr. Nahoum is a Fellow of the New York Academy of Dentists, a Fellow of the American College of Dentists, and a Diplomate of the American Board of Orthodontists.

Nahoum's contributions to teaching and research in Orthodontics at a lecture and dinner, where the establishment of the Henry I. Nahoum Invisalign Fund in Orthodontics at Columbia University, was announced. The Fund, which will be used for scholarship support for students and fellows in Orthodontics and for a prize for outstanding postdoctoral research, was initiated with a lead gift of \$25,000 from Align Technology, Inc. The company wished to honor Dr. Nahoum for his pioneering work in the area of removable appliances, which laid the groundwork for Align Technology's products.

After being appointed professor emeritus at Columbia in 1987, Dr. Nahoum moved to California where he became professor of orthodontics at Loma Linda University.

Richard Feinstein '56

REMEMBERING THE PAST: GIVING TO THE FUTURE

"It was like starting all over again," says **RICHARD FEINSTEIN '56** when he describes how he put his life together again after his home burned to the ground in the Malibu fires of 1996. And, start all over again he did, after "taking a little time off" to recover from the devastating loss. The result is magnificent, an exciting architectural dream of steel and glass and magnificent views, built on the same site as the house he lost. The new house is such a stunning success that it is featured this summer in the magazine of architectural design, *TREND*.

Dr. Feinstein has built a career that is as well constructed and successful as his new home. He was born in Brooklyn and graduated from Brooklyn College before earning his dental degree at Columbia. Shortly after receiving his DDS, Dr. Feinstein left for the West Coast to serve in the US Navy near San Francisco. In spite of his love for New York, to which he returns often, especially to visit with old SDOS classmates, Dr. Feinstein decided to stay on in California. After leaving the Navy, he completed a course in endodontics training at the UCSF. His next move was to Los Angeles to open a practice and join the dental faculty at UCLA, where he taught both radiology and endodontics for many years.

Today, in addition to practicing endodontics in an office overlooking a panorama of planes in flight at the Los Angeles airport, Dr Feinstein likes, as he says, "to do cutting edge research." He has invented a periodontal technique to promote growth in injured teeth by bonding a vertical fracture and then covering it with a teflon membrane for a year, during which the bone regenerates. It could be used for the sort of injury that might occur during a root canal procedure, or the insertion of a post in the jaw.

He speaks fondly of his days at Columbia, emphasizing a deep appreciation for the "quality of education I received there." He remembers especially the fine teaching provided by faculty members like Drs. John Lucca and Robert Herlands, who, he says, were among the "most respected for their love of dentistry." The desire of his professors to achieve perfection has been a strong influence on Dr. Feinstein's work ever since. Gratitude for his experiences at Columbia has led Dr. Feinstein to include Columbia in his estate with a scholarship trust fund of \$400 thousand. The initial award will be made to the most needy senior student among the top five in his or her class. As the fund accumulates value, the number of scholarships will be increased.

below, left: Dr. Feinstein's recently rebuilt home in Malibu.

below: Dr. Richard Feinstein in his California office, which overlooks the Los Angeles airport.





1852 Society

Columbia University's School of Dental and Oral Surgery (SDOS) traces its origins to 1852, the year in which the New York State legislature chartered the New York College of Dentistry, subsequently renamed the New York College of Dental and Oral Surgery. When the University accepted dentistry as an integral and important part of the health sciences and a true university discipline, Columbia created SDOS by absorbing the College and, later, creating mergers with other dental institutions from the area.

The 1852 Society's name commemorates the earliest date connected with the history of the School and recognizes the School's most honored benefactors. It is composed of SDOS alumni and friends who make gifts of \$1,000 and more to SDOS during the fiscal year, of the School's newest alumni, whose contributions for the year are from \$250 to \$499, and of those who have been graduates for between six and ten years, whose annual gifts are between \$500 to \$999.

FOUNDER'S COUNCIL (\$10,000 AND ABOVE)

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American Association of Orthodontists Foundation
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Nancy E. Fuchs
Richard Fuchs, MD
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Eugene L. Gottlieb, DDS '43
Robert Gottsegen, DDS '43, Perio '48

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 C. Anthony Lopresti, DDS '80
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 Louis I. Rubins, DDS '60
 George Rudensky, DDS '58
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 Charles S. Solomon, DDS '58
 Jeffrey Hall Stein, DDS, Endo '90
 Mayra Suero-Wade, DDS, MPH '88
 Paul J. Tannenbaum, DDS '61, Perio '67
 Stephen Patrick Tigani, DDS, Ortho '95
 Susumu Uehara, DDS, Ped '63
 Dr. William Wallert, Ortho '62
 Daniel Lee Zedeker, DDS '83

YOUNG 1852 (RECENT GRADUATES)

Michael E. Ayoub, DDS '97, Ortho '99
 Ti-Lun Josephine Chan, DDS '00
 Sandra Sung Yoon Choo-Stevo, DDS, MPH '99
 Gwen Stacey Cohen, DDS '96
 Wisanu Charoenkul, DDS '00
 Dr. Robert James Gallois, Ortho '01
 Gordon Steven Groisser, DDS '00
 Kyung Kyle Y. Jeon, DDS '00
 Hyung-beom Kim, DDS '00
 Catherine Lei Kuo, DDS '00
 Evanthia G. Lalla, DDS, MS, Perio '97
 Roy Lee, DDS '00
 Jesus Martinez, DMD, Ortho '99
 John Liangzhang Shi, DDS '99
 Foroud Tale-Yazdi, DDS '00
 Arthur Volker, DDS '03
 Michael Shan Young, DDS '96, Perio '99



Daniel L. Zedeker '83, the new chairman of the school's most honored group of donors, the 1852 Society, was awarded the Alumni Medal for distinguished service by President Lee Bollinger at the 106th Commencement Day Luncheon on May 19 in Low Library. Dr. Zedeker serves as a member of the Executive Committee of the Association of Dental Alumni, the Admissions Committee, and is a volunteer faculty member.

Patrons, Fellows, Associates

PATRONS (\$500 - \$999)

Martin Asness, DDS '59
Joseph M. Behrman, DDS '83
David C. Christian, DDS '71
Dr. Steven Chussid
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Christopher J. Klatell
Priscilla A. Konecky, DDS, Endo '81
Dr. Janet Stoupe Lerman, Perio '91
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Dominic A. Polimeni
Roberta Ann Schaber-Zedeker, Hygiene '84
Murray Schwartz, DDS '53
Richard Shih, DDS '00
Eugene M. Tedaldi, DDS '54
Dante M. Torrese, DDS '75
Joseph H. Tychostup, DDS '76
John C. Waddell
Alan J. Wasserman, DDS '73
Robert M. Wein, DDS '61
Joseph D. Wirtenberg, DDS '56

FELLOWS (\$250 - \$499)

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Robert M. Averno, DDS, Ped '71
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Angie Papandrikos Bayiokos, DDS '98
Ralph L. Berk, DDS '76, Ped '77
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Paul R. Bjorklund, DDS '61
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Roy Boelstler, DDS '59
Michael L. Bolden, DDS, Perio '90
Joseph J. Boscarino, DDS '71
Paul J. Cain, DDS, Ortho '79
David J. Caponigro, DDS '84
Alfred Carin, DDS '55
Vincent Carrao, DDS, MD '93
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Charles M. Chayes, DDS '41
Roger L. Cho, DDS '77
Morton Cohen, DDS, Ortho '53
Richard S. Corbin, DDS '89
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Dona E. Wayman, Hygiene '71, '72
Jeffrey Weis
Dr. Alan S. Weisberg, Ortho '59
Ellen H. Welch, Hygiene '71, '72

Melissa M. Welsh
Melissa Wong Wharton '82
Marva O. White, Hygiene '86
Lynne C. Wilson, Hygiene '61
Stephen M. Winber, DDS '57
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Aretha Yamusah, DDS, MPH '95
Susan M. Yawger, Hygiene '77
Ayelet C. Yoles, DDS '03
Marjorie R. Young, Hygiene '60
Tarek O. Zaki, DDS '83, Ortho '86
Selene Oestreich Zamer, Hygiene '50
Jerome A. Zane, DDS '43
Rosemarie L. Ziolkowski, Hygiene '55
Victoria Zubkina, DDS '86

This report includes alumni, parents and friends who made gifts that were received between July 1, 2003 and June 30, 2004. Although we make every effort to ensure the accuracy of these listings, please bring any errors or omissions to our attention. Please report corrections to:

Chris Nicholson
Office of Development Services
Columbia University Medical Center

PRIMUS notable

Q. Capt. Lipton, although you earned your dental degree at Columbia, you have never practiced, moving on to the U.S. Public Health Service as a dental commissioned officer instead. What made you take a new direction?

A. Well, I had several relatives in dentistry who really enjoyed the profession and SDOS gave me a generally positive dental school experience. I also, however, had two exceptional mentors: Dr. Robert Gottsegen, the Chair of Periodontology, who introduced me to community dentistry and dental public health, and Dr. Irwin Mandel, who provided insight into the beauty and fascination of research and urged me to work toward a PhD.

Q. You turned down a chance to enter Harvard's Medical Science program in favor of earning your M.Phil. and PhD in the new federal sociomedical sciences program first introduced at Columbia Graduate School of Arts and Science and School of Public Health. Was that when you decided on a life of public service?

A. Certainly the faculty I met there—especially Professors Robert Merton and Harriet Zuckerman, both known for establishing the sociology of science as a discipline, and Jonathan Cole, who became Columbia Provost and with whom I published a paper on the reputation of American medical schools—were all influential. During my PhD training, I also received a traineeship from the U.S. Public Health Service, setting me on the track I've followed ever since.

Q. What is your position in the Public Health Service?

A. I am a Commissioned Officer in the U.S. Public Health Service, the only one of the Federal Government's seven uniformed services dedicated exclusively to health and health care. As a Captain in the USPHS, I hold a rank equivalent to that of a Captain in the U.S. Navy. My current position is that of Senior Adviser to the Chief Dental Officer, U.S. Public Health Service.

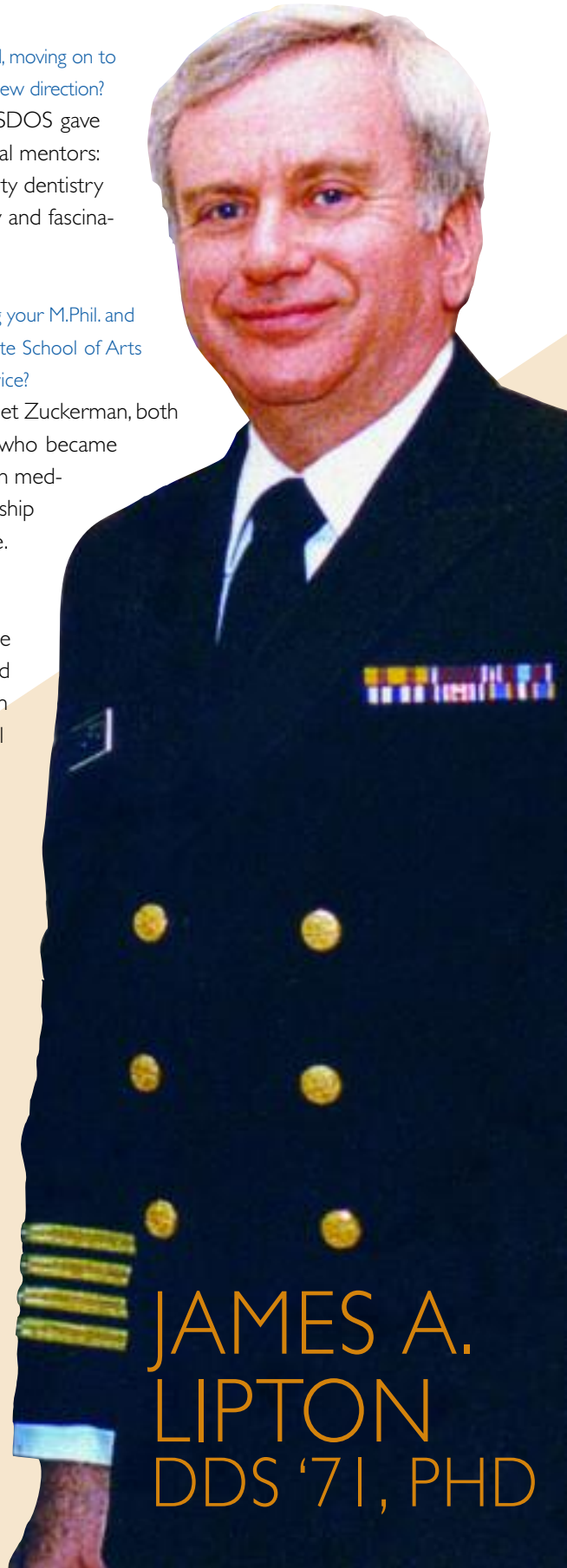
Q. How many dentists are there in the Public Health Corps?

A. Of the 6,000 health professionals in the Corps, currently 480 are dentists. They are assigned to a number of agencies and programs, including: the Indian Health Service, National Institutes of Health, Food and Drug Administration, Centers for Disease Control and Prevention, the Department of Justice's Bureau of Prisons, the Department of Homeland Security's U.S. Coast Guard, and others. I am the main contact for communication between these groups and the Office of the Chief Dental Officer. I also assist the Chief Dental Officer in many other ways, including developing and recommending policy to the U.S. Surgeon General and the Assistant Secretary for Health in the Department of Health and Human Services.

Q. Has dentistry influenced your life beyond your career?

A. Well, I did meet my wife, Jill, at a birthday party for her dentist, who was married to a graduate student doing research at SDOS. Jill, however, is a psychiatric social worker, and our son, Gordon, a junior at Carleton College in Minnesota, is firmly focused on a career in English and media studies.

The Primus Notable feature will appear regularly in SDOS publications, focusing on a graduate of distinction who has maintained a close interest in the School throughout his or her career.



**JAMES A.
LIPTON
DDS '71, PHD**



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