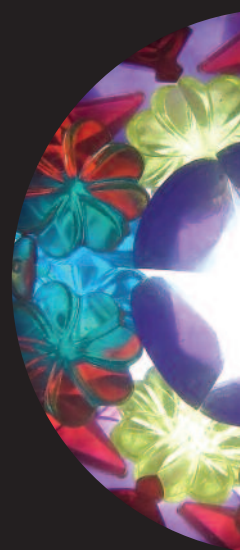
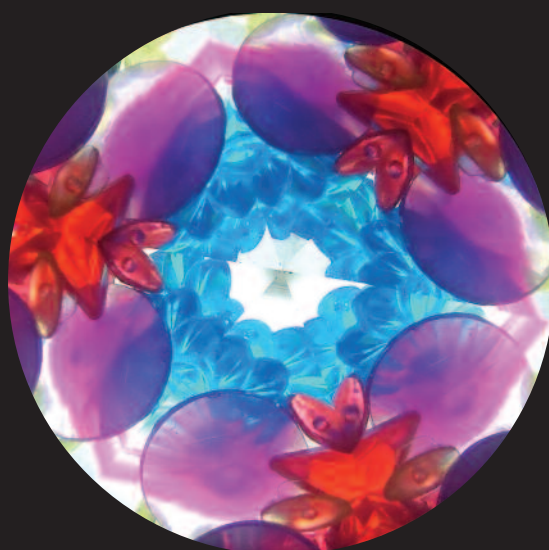


NEW YORK UNIVERSITY COLLEGE OF DENTISTRY

G L O B A L H E A L T H

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Combining Technology and Ingenuity to
Educate Tomorrow's Dentists

Global Health Nexus
College of Dentistry
New York University

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Combining Technology and Ingenuity to
Educate Tomorrow's Dentists



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Message from the Herman Robert Fox Dean



**Charles N. Bertolami,
DDS, DMedSc**

Herman Robert Fox Dean

In the aftermath of a report issued in 2001 by The Institute of Medicine (IOM)—the nation’s highest authority on issues of biomedical science, medicine, and health—many health sciences schools, including the NYU College of Dentistry, have sought to recast their approach to educating future healthcare providers. That report noted that “Between the care we have and the care we could have, lies not just a gap, but a chasm.” This observation, coupled with growing evidence of increasingly poor indicators of health, despite living in an age of managed care and an information explosion, has made it impossible to ignore the decreasing relevance of traditional health sciences education.

The need to rethink the dental education paradigm, in particular, is underscored by the growing importance that the National Institute of Dental Research (NIDCR) is giving to the role of dentists in addressing systemic health concerns, as exemplified by NIDCR-funded interventional studies aimed at further clarifying the relationship between periodontal disease and low-birth-weight infants, cardiovascular disease, and diabetes. Given these circumstances, NYUCD has charted a path aimed at producing the kind of dentist that we believe the

“The bottom line is this: A mouth doesn’t walk into a dental office, a person does. That mouth just happens to drag a whole body along with it—and a tremendous opportunity is lost for enhancing overall health when we act as if our responsibility is confined to a disembodied mouth. I think the imagery is compelling, and it’s the basis for the innovations being introduced at NYUCD.”

21st century demands: A clinician who is not only a caregiver, but also a sophisticated consumer of research, a healthcare professional who is comfortable working in an interdisciplinary and interprofessional context, a humanist, an information specialist, and a lifelong learner. A key ingredient in this mix is an increased emphasis on both primary care and prevention and on service learning, which seeks good and meaningful ways to broaden our students' experience outside the walls of the college as well as within them.

The bottom line is this: A mouth doesn't walk into a dental office, a person does. That mouth just happens to drag a whole body along with it—and a tremendous opportunity is lost

for enhancing overall health when we act as if our responsibility is confined to a disembodied mouth. I think the imagery is compelling, and it's the basis for the innovations being introduced at NYUCD.

Inspired by the IOM's challenge to help narrow the chasm between "the care we have and the care we could have," NYUCD in recent years has forged a number of new educational approaches, many of them powered by computer technology. In this issue of *Global Health Nexus*, we are pleased to highlight several of these programs, all of which reflect NYUCD's commitment to excellence in teaching and improved levels of patient care.

In that regard, I am pleased to call your attention to an article on p. 79 entitled "NYU Academy of Health Educators to Be Established," which outlines plans for a collaborative model specifically focused on teaching excellence which will bring together NYU's College of Dentistry and its College of Nursing, the School of Medicine, the College of Arts and Science, and the Wagner School of Public Service.

We also take a look at one of our nation's newest dental schools, the Arizona School of Dentistry & Oral Health, and how it is pushing the envelope of curricular reform. And there's much more, including the presentation of a new Strategic Plan for the Colleges of Dentistry and Nursing; research breakthroughs, including an article on

the impact of biomaterials research on the future of dental practice; and a celebration of members of our academic community, including two who recently received the University's top awards for excellence in teaching and administration.

On other fronts, NYUCD continues to be engaged in a number of outreach efforts—

both national and international—to forge exciting new alliances, partnerships, and opportunities for alumni volunteerism. Through them, we are seeing rich examples of synergy and clear pathways for continued and future collaboration.

We also continue to benefit from the generosity of alumni and friends, who are helping to maintain the high levels of philanthropy that have fueled our aspirations in recent years. In today's environment of economic uncertainty and challenge, it's impossible to predict the future philanthropic climate, but we are doing everything in our power to continue to build an institution worthy of the ongoing support of all those—alumni, faculty, students, administrators, staff and friends—who have enabled us to come so far.

I hope that you enjoy the kaleidoscope of views that this issue of *Global Health Nexus* brings you, and I wish you and your families all the joys of summer.

“NYUCD continues to be engaged in a number of outreach efforts—both national and international—to forge exciting new alliances, partnerships, and opportunities for alumni volunteerism.”

Combining Technology and Ingenuity to Educate Tomorrow's Dentists



Clockwise from left, Dr. Wolff; Dr. David L. Glozer, Clinical Professor of Cariology & Comprehensive Care; Dr. Andrew Schenkel, Clinical Associate Professor of Cariology & Comprehensive Care; Dr. Meir Kozlovsky, Clinical Assistant Professor of Cariology & Comprehensive Care; Dr. John R. Calamia, Professor of Cariology & Comprehensive Care; Dr. James M. Kaim, Professor of Cariology & Comprehensive Care; Dr. Kenneth Allen, Associate Professor of Cariology & Comprehensive Care

By Mark S. Wolff, DDS, PhD

Associate Dean for
Predoctoral Clinical Education;
Professor and Chair, Department of
Cariology & Comprehensive Care
NYU College of Dentistry

While many dental schools have embraced virtual learning, NYUCD's approach is to make it pervasive throughout the curriculum. By using information technologies, NYUCD has created a virtual cyber classroom, eliminating the need for student and teacher to be brought together physically in the same place and at the same time, making educational materials accessible to students anytime and anywhere, and, in so doing, increasing opportunities for more self-directed learning.

Examples range from providing the entire curriculum on DVD, to issuing students Palm Pilots that give them instant access to vital clinical and therapeutic data, to podcasting NYUCD lectures through iTunes U. By utilizing computers and communications in new ways, we are able to bring vast amounts of knowledge to students' fingertips. But even as we recognize the importance of technology, we also understand that it is only a tool. No matter how sophisticated, technology cannot take the place of context, continuity of care, and the imparting of professional values.

That vision is reflected in the name of the department that I chair—Cariology & Comprehensive Care. When I joined NYUCD in 2005, that department did not exist; its

forerunner was the much smaller Department of Operative Dentistry. By electing to use the term “cariology” and coupling it with “comprehensive care,” NYUCD in essence declared that dental caries is an infectious disease, and that etiology, treatment, prevention, and risk assessment warrant priority attention within the curriculum. Along with that expanded definition came a new requirement for NYU dental students—that they learn to act as full-body guardians, rather than just as stewards of the mouth. Two years later, when I was appointed to the new position of Associate Dean for Predoctoral Dental Education, with responsibility for the entire preclinical and clinical curriculum, I was in a privileged position to formulate a set of objectives that provide students with a perspective on patient care that transcends the technological even as it embraces it.

These objectives include:

- making NYUCD a leader in the minimally invasive, nonsurgical management of dental caries
- shifting the dental education paradigm away from the mechanics of tooth repair and toward risk assessment and prevention, thereby enabling the dentist to play a key role in improving the overall quality of a patient’s life
- fostering students’ ability to become sophisticated consumers of research, who are capable of reading, understanding, and critically assessing the scientific literature and of selecting the best, evidence-based quality care for a patient over a lifetime
- infusing the entire curriculum with the intangible skills of doctoring—communication, humanism, compassion, and professionalism
- making our graduates better thinkers and better practitioners than they would be, given a different dental curriculum.



A key benefit of this approach is that it enables the alignment of all of the College’s clinical departments in one direction so that all of our clinical faculty are on the same page in terms of moving our students forward. This is especially important given our commitment to teach the use of evidence-based practice (EBP), which uses the best possible evidence, combined with clinical expertise and patient preferences, to inform clinical decision making.

Using this approach, we have developed a number of novel programs that we believe are substantially improving the experience we offer both to our students and to our patients. In the articles that follow, you will learn how NYUCD is putting this approach into practice in a series of predoctoral educational programs that combine hefty doses of ingenuity with technology to train tomorrow’s dentists.

“We want our students to understand that evidence-based practice (EBP) does not strip dentists of their decision-making authority or replace expertise. Instead, the scientific evidence that is at the heart of EBP should complement a lifetime of experience, so that dentists can deliver the best quality care to their patients.”

Cavities? That's So Last Millennium



By James M. Kaim, DDS

Professor of Cariology &
Comprehensive Care
NYU College of Dentistry

Andrew B. Schenkel, DDS, MS

Clinical Associate Professor of Cariology &
Comprehensive Care
NYU College of Dentistry

Kenneth Allen, DDS, MBA

Associate Professor of Cariology &
Comprehensive Care
NYU College of Dentistry

As early as 1896, G.V. Black predicted that “The day is surely coming when we will practice prevention rather than reparative dentistry.” Today, more than a century later, the dental profession is finally poised to make that goal a reality.

Major advances in the science of cariology (the study of decay), have taught us that caries is a dynamic process of demineralization and remineralization of tooth structure, and that when the oral cavity is in a demineralization phase longer than a remineralization or neutral phase, the caries process will lead to cavitation, or tooth decay. Today we know that there is a balance between positive and negative factors. A patient who suffers from frequent cavities has tipped the balance of the scale to the negative side, and it is our job to re-establish a balance.

In 2006, a coalition of dental schools, the CAMBRA (Caries Management By Risk Assessment) coalition, of which NYUCD is a founding member, was formed to promote awareness of this process among both the profession and the public and to establish guidelines for finally achieving the end of cavities. The guidelines are as follows:



- oral bacteria can be modified to promote health
- patient education and informed participation are key to controlling dental caries
- remineralization of non-cavitated lesions of enamel and dentin/cementum can repair hard tissues, so that dental decay, in its earliest stages, need not lead to developing a hole in a tooth
- minimal operative intervention of cavitated lesions is key to the long-term success of restorations
- repair of defective restorations exists as a possible alternative to replacement.

CAMBRA works to highlight indicators that identify individuals as high-risk patients and therapies that can be used both at home and in the dental office to prevent or reverse caries. Risk factors include xerostomia (dry mouth), recent restorations, caries, diets high in refined carbohydrates and sugars, lack of fluoride, and frequency of eating. Beneficial treatments include sealants, fluoride applications, and prescription fluorides.

Using this new knowledge, NYUCD has implemented a formal program to identify the caries risk of every patient. Whether patients are assessed as being at low, moderate, or high risk, they are counseled and advised regarding their particular level of risk, and appropriate thera-

pies, using the CAMBRA guidelines, are instituted. In addition, recall and re-evaluation intervals are recommended and recorded in the patient record. Indeed, caries risk assessment and monitoring have become the accepted and required standard of care that all NYU dental students must follow.

But while knowledge of the caries process has advanced tremendously in recent years, challenges still remain. When we look at the epidemiological data, studies show that 20 percent of the population is responsible for 80 percent of the caries activity. Moreover, there is an inverse correlation between economic status and severity of this infectious disease. Some of this is due to diet and inadequate counseling, as well as to the lack of fluoridated water and inadequate access to care in many areas. Equally important is the fact that many of the preventive measures and treatments that have proven to be effective in preventing or at least significantly reducing the disease are not covered by insurance. The irony is that insurance companies will pay for surgery but not for treatment that can eliminate the need for surgery. In dental terms, they will pay to “drill and fill,” but not to “seal and protect.”

Despite these obstacles, NYUCD is committed to educating our students to prevent disease using the most advanced therapies available, including intervention in the caries process at an early enough stage so that surgical treatment is unnecessary. As recently as 1989, it was reported that 43 percent of six-year-olds in a low socioeconomic status group demonstrated a caries-free mouth while the same age group identified as high socioeconomic status were 77 percent caries-free. Re-evaluated in 1996, the same groups showed some improvement—to 49 percent and 84 percent, respectively. Are these caries-free individuals just lucky or can this disease actually be eliminated?

“Caries risk assessment and monitoring have become the accepted and required standard of care that all NYU dental students must follow.”

Obviously, the model in place for the vast majority of high socioeconomic status children has proved to be effective. However, we need to narrow the gap even further. The end of caries is finally a real possibility, and NYUCD is working hard to make this happen.

Problem-based Learning and the Simulated Patient:

USING TECHNOLOGY TO PROMOTE STRONG CONNECTIONS WITH PATIENTS



By David L. Glotzer, DDS

Clinical Professor of Cariology & Comprehensive Care
NYU College of Dentistry

James M. Kaim, DDS

Professor of Cariology & Comprehensive Care
NYU College of Dentistry

Since 2001, NYU dental students have had the opportunity to learn foundation skills, gain clinical ability, and practice decision making in a spectacular clinical simulation facility before they have actual patient contact. This learning methodology is based on the premise that the efficient and effective practice of dentistry demands that students have constant and ready access to emerging knowledge and possess the highest level of technological proficiency. But our faculty also recognize that being competent to mechanically perform even the most complex procedures is not the same as being a great clinician, one who is concerned about the patient's overall well-being. Given the role of technology in modern dental education, the question becomes: "How, in a room filled with simulators, is it possible to develop clinicians who are capable not merely of technical competence, but of gathering and utilizing the best information available to be applied to patient care?"

To meet this challenge, NYUCD has adopted an innovative teaching strategy throughout our second-year preclinical restorative dentistry course based on problem-based learning (PBL) that, in essence, views the simulation environment as a real-life private practice setting and the simulated patients as members of an actual family, with a unique constellation of physical, psychological, sociological, economic, and behavioral traits.

PBL was pioneered more than 30 years ago by medical school faculty at McMaster University in Canada, in response to the frustration expressed by medical students—and faculty—who felt that traditional methods of lecture presentation left them unprepared to deal with challenging clinical experiences. To remedy the situation, McMaster University made the decision to move from a faculty-centered approach to a student-centered, interdisciplinary process using actual clinical cases, which puts students in the driver's seat in dealing with challenging clinical situations and recasts faculty as "facilitators," rather than traditional authority figures. PBL is now widely used at medical schools in the U.S. and Canada, including the Harvard

Medical School. But PBL is not limited to medical and dental education; it is also used in business and legal education and other areas where educators have recognized the limitations of the lecture methodology and have begun to seek alternative methods of instruction.

“In order to nurture students who are not only competent to mechanically perform even the most complex procedures, but who are also concerned about the patient’s overall well-being, NYUCD has adopted an innovative teaching strategy based on problem-based learning (PBL) that views the simulation environment as a real-life private practice setting and the simulated patients as members of an actual family.”

Problem-based learning requires the student to look deep into the clinical situation. Does the patient have a “high” risk for caries? What is the patient’s oral home care regimen? Is the patient exposed to daily fluoride levels? Is diet a critical factor? Is the patient’s blood pressure significantly elevated? Is the patient diabetic? Has the patient had a recent myocardial infarction and balloon angioplasty? Is the female patient pregnant? How do these facts impact the use of local anesthetic, the length of a treatment visit, or the need for a medical consultation?

In managing the simulated patient, students learn how to interpret the information presented and where to find the relevant treatment guidelines for the information. They learn to integrate all of the information into appropriate care decisions, in contrast to viewing

the facts as isolated phenomena, which are more difficult to integrate than facts taught in a realistic context. The result is a reduction in the potential for acquiring “inert” knowledge—learned information that is difficult or impossible to apply to realistic situations.

Each week, a new “patient” from this “family” presents for treatment. Prior to beginning treatment, students receive written information, radiographs, and case background material for the simulated patient-problem scenario. The students are required to complete a treatment plan prior to arriving in class, and are encouraged to work collaboratively and to focus on identifying clinical issues applicable to the resolution of the problems of their particular “patient” for the day. They must decide which teeth may require care, how health and social issues may modify the treatment to be delivered, and what the patient’s risk factors are for disease. For example, the patient may not want “mercury” fillings; the patient may have just lost his job and his dental insurance; the patient may have received a conflicting diagnosis from another





dentist. Students must recommend tobacco cessation for patients with histories of smoking, and they must make recommendations for the presentation of all diseases, NOT just the decay to be treated that day. Students quickly learn that we treat people, not teeth.

It is important in PBL to take an incremental approach in order to avoid overwhelming the student with the complexity of clinical situations. We begin with simplified versions of real clinical situations and progressively add components. This enables students to engage with one another in meaningful problem solving. In the process, students develop independent reasoning skills that can be evaluated and strengthened by the faculty facilitators.

Student comments are the barometer by which we judge the program's success. Seth Rubenstein, Class of 2011, has this to say: "At NYU, our operative lab work has been designed to help correlate preclinical treatment with patient care and ultimately help us transition into the clinic more smoothly. This approach teaches us to treat patients comprehensively. We enjoy the challenge of using information gained from all parts of our education—pharmacology, dental anatomy, radiology,

“Problem-based learning requires the student to look deep into the clinical situation. Does the patient have a ‘high’ risk for caries? What is the patient’s oral home care regimen? Is the patient exposed to daily fluoride levels? Is diet a critical factor? Is the patient’s blood pressure significantly elevated? Is the patient diabetic? Has the patient had a recent myocardial infarction and balloon angioplasty? Is the female patient pregnant? How do these facts impact the use of local anesthetic, the length of a treatment visit, or the need for a medical consultation?”

cariology, etc.—and applying it to patient care scenarios. This more realistic, preclinical approach allows us to see the big picture of the work we are doing in the labs rather than blindly completing an assignment on a typodont. Instead, our assignments are intertwined with real scenarios, such as a patient concerned with the esthetics of their smile, or one with limited finances.”

Adds E. Matthew Lamb, Class of 2011: “This training has emphasized that a good restorative preparation does not, in its own right, makes a great dentist. Patients will never see our expertly done preparations or artistically carved occlusal anatomy. Instead, they’re concerned about our ability to diagnose the problem correctly and to treat it in a way that is proper—perhaps even preventing it in the first place! This medical approach



“ At NYU, our operative lab work has been designed to help correlate preclinical treatment with patient care and ultimately help us transition into the clinic more smoothly. ”

to dentistry is what builds a trusting relationship with patients and what ultimately defines a good dentist.”

Our students’ enthusiastic reaction to diagnosing and treating a “patient,”

rather than just performing a mechanical procedure on a plastic tooth, is the best outcome we could hope for. This process has strengthened their ability to transition into the clinic setting and has brought a new sense of accomplishment to both students and faculty.



Screening for Systemic Disease in the Dental Office



By Mark S. Wolff, DDS, PhD

Associate Dean for Predoctoral Clinical Education;
Professor and Chair, Department of Cariology & Comprehensive Care
NYU College of Dentistry

Judith Haber, PhD, APRN, BC, FAAN

The Ursula Springer Leadership Professor in Nursing;
Associate Dean for Graduate Programs
NYU College of Nursing

Madeleine Lloyd, MSN, APRN, BC, FNP, MHNP

Clinical Instructor in Nursing;
Coordinator, Adult Nurse Practitioner Program
NYU College of Nursing

Andrew B. Schenkel, DDS

Clinical Associate Professor of Cariology & Comprehensive Care
NYU College of Dentistry

Dentistry has a unique window into patient care. Many dental patients develop long-term relationships with their dentist that last decades and occasionally generations. But many patients who regularly see dentists do not see a primary health-care provider with anything approaching the same regularity. This places the dental practitioner in a privileged position to observe and intervene in potentially lifesaving general health matters.

At the New York University College of Dentistry, we have adopted a patient care philosophy based on the conviction that it is our obligation to care for the entire patient, not just the mouth.

As Dean Bertolami often notes, “a disembodied mouth doesn’t walk into a dental office—a person does; and that person brings along with them a body as well as a mouth.” Accordingly, our students are taught to evaluate patients for a variety of general health risks, not solely because such health risks may affect dental health outcomes, but because they may affect general health outcomes. Using an integrated health-care risk assessment approach, these oral health professionals in training are learning to identify risk factors for both oral and systemic disease, and to refer their patients for further screening, evaluation, and medical treatment, as needed.

For example, all dentists are aware that tobacco use negatively affects periodontal health and increases the risk of oral cancer. But at NYUCD, our students do more than just tell patients they should quit. In keeping with our philosophy of caring for the whole patient, and given our knowledge that smoking causes premature death, we launched a formal, mandatory program last spring to train students and faculty to utilize the five **A**’s of Tobacco Interventions for Healthcare Clinicians; **A**sk, **A**dvice, **A**ssess, **A**ssist, and **A**rrange for follow-up. Moreover, NYUCD is partnering with the Manhattan Tobacco Cessation Center, housed at NYUCD and headed by Dr. Donna Shelley, Director of Interdisciplinary Research and Practice, on a tobacco cessation project involving dental students, who, to date, have dispensed more than 500 units of nicotine replacement to patients

seeking to quit smoking.

Impressive as this is, our students’ social responsibility does not end there. They also provide information for follow up, which is available both at NYUCD through its on-site NYU College of Nursing Faculty Practice and through the New York State Quit-line.

The NYU College of Nursing Faculty Practice, which opened at NYUCD in 2006, is playing an important role in advancing NYUCD’s educational philosophy of linking oral and systemic health needs in order to improve comprehensive health outcomes.

Working together, the NYU Colleges of Dentistry and Nursing offer a unique opportunity for all patients to have access to an integrated healthcare “home” that addresses both their oral and general healthcare needs. The Nursing Faculty Practice, which is managed by nurse practitioners who are on the faculty of the NYU College of Nursing, offers comprehensive primary health care, including routine physical examinations, counseling, and age-appropriate health and cancer screenings, and has the advantage of being conveniently located on the lobby level of the College of Dentistry.

NYU dental students have always collected data on their patients’ health, but the collaborative programs that have resulted from the dentistry/nursing alliance at NYU and the convenience of having a Nursing Faculty Practice on-site at NYUCD have given a new relevance to the importance of incorporating risk assessment for serious systemic

conditions into the dental exam.

For example, a patient with the complaint of excessive thirst, hunger, and frequent urination could have the early signs of diabetes. A patient who sleeps on two pillows and complains to their dentist of waking in the middle of the night may be suffering from congestive heart failure.

Another example is a patient who presents to the dental office with modifiable risk factors for heart disease, such as smoking, obesity, and elevated blood pressure. Each of these patients has conditions that might affect dental care outcomes, but more importantly, these conditions may be life threatening. Our students are encouraged to identify a series of health indicators and risk predictors that could save a life.

Dental students seek consultation from the patient’s primary health-care provider and encourage the patient to control their risk and disease. If a patient does not have a primary care provider or has not seen a provider in a year or more, a referral is made to the Nursing Faculty Practice for an appointment with one of the NYU College of Nursing nurse practitioners.

The unique collaboration between the NYU Colleges of Dentistry and Nursing, with its focus on screening for physical health problems in a dental office, highlights the opportunities that exist to develop a collaborative model that expands access to care by addressing oral health as part of general health, well-being, and life expectancy.

Learning to Treat Survivors of Torture:

A UNIQUE EDUCATIONAL PROGRAM MEETS THE NEEDS OF A UNIQUE PATIENT POPULATION

By Steven J. Resnick, DDS

Clinical Assistant Professor
Department of Cariology & Comprehensive Care;
Co-director, Program for Survivors of Torture
NYU College of Dentistry

June Weiss, DMD

Clinical Assistant Professor
Department of Cariology & Comprehensive Care;
Co-director, Program for Survivors of Torture
NYU College of Dentistry

Students at the NYU College of Dentistry have access to the largest, most culturally diverse pool of dental patients in our nation, including many with multiple diseases and systemic conditions in addition to their oral health needs. As a result, many NYU dental students believe that they have encountered every imaginable physical condition. But despite the breathtaking diversity of our patients and the range of their healthcare needs, until last summer, when NYUCD introduced the first program in the U.S. designed to educate dental students specifically to provide dental services for survivors of torture, there existed a category of needs to which dental students had never before been exposed.

Because of its enduring status as a haven for political refugees, the United States, and New York City in particular, draws a disproportionate number of survivors of politically motivated torture from around the world, the majority of whom suffer from post-traumatic stress disorder. Haunted by memories of physical torture, survivors have to deal with persistent frightening thoughts and memories of their ordeal, in addition to having to overcome routine fears of dentistry. As a result, their ability to access dental care is seriously compromised.

NYUCD's PSOT (Program for Survivors of Torture) is our attempt to help survivors overcome these barriers to care. The program, introduced last summer, is an offshoot of the Bellevue/NYU Program for Survivors of Torture, which was established in 1995 to provide comprehensive medical and mental health care, as well as social and legal services, for survivors of torture and war traumas and their family members from over 80 countries. NYUCD's program was developed in consultation with the leaders of the Bellevue/NYU Program and is designed specifically to complement the services it provides.

Following a rigorous selection process, 12 senior NYU dental students were chosen to participate in the inaugural program. To prepare for their assignment, students took part in a series of interactive seminars focusing on the special





physical and psychological needs of survivors of torture; attended lectures sponsored by the Bellevue/NYU Program for Survivors of Torture; and rotated through the Bellevue Program on Monday evenings, joining the medical team in history taking, physical examinations, and psychological intake sessions. As co-directors of the course, our educational objectives were to familiarize the students with the prevalence and nature of politically motivated torture, and to make them aware of the psychological profiles of the patients and the medical conditions and pain syndromes typically experienced by this population. These sessions also served to reduce the fear of the unknown for our students and introduced them to the amazing stories of survival among this population.

Between 20 and 25 patients referred by the Bellevue program come to NYUCD every Friday for

diagnosis and treatment. The majority of these patients, including many who came to the U.S. from sub-Saharan Africa, Tibet, and Southeast Asia, do not speak English and require interpreters in order to communicate. This necessitated having Bellevue Hospital Social Services staff train our students to provide care utilizing an interpreter, while striving to maintain the intimacy of the doctor-patient relationship.

In order to provide these patients with the most supportive environment possible as well as the finest care, we developed a set of principles to guide us in equipping our students with the requisite skills to treat a patient population with extremely complex psychological as well as physical needs. These principles are: ownership, preparedness, critical thinking, and self- and peer evaluation.

We sought to empower our students to take ownership of the program by taking responsibility for developing the

“When a student says, ‘I feel that I have not only helped a patient to overcome psychological and dental issues, but that I have also helped to undo a wrong perpetrated by society,’ we know that the education these students have received has been effective and has further broadened their understanding of what it means to be exposed to every possible physical condition patients may present.”



daily patient schedule, creating and implementing their own weekly Bellevue rotations, and ensuring that supplies and instruments were on hand for the scheduled treatment and that instrument gathering and return protocols were efficient and predictable.

To promote preparedness, we arranged for our students to begin each treatment day with a “huddle” at 8 a.m. in the Bluestone Center conference room. During the huddle, patients to be treated that day are discussed, and procedures and rationales for care are reinforced. A weekly seminar on various dental topics is presented by faculty. Students leave the huddle feeling energized and, more important, equipped with the knowledge and confidence necessary to act in a professional manner and to produce positive outcomes for their patients.

Following each five-hour clinic session, the team retires to a seminar room for a “lunch and learn” session where the day’s events and treatment outcomes are reported and discussed. The sessions reinforce the students’ ability to think critically, based on an in-depth understanding of the science underlying clinical

decisions made and procedures selected, and to articulate the nuances they’ve come to understand as necessary in treating this population.

Honest and forthright self- and peer evaluation is another of the cornerstones of the professionalism we strive to cultivate. The students work in teams of two, which provides a means of peer evaluation at the same time that it promotes efficiency. Students are encouraged to consult with each other on their cases and to communicate discreetly with one another and with supervising faculty during treatment in order to ensure the most appropriate course of treatment. This process is enhanced by the privacy and intimacy of the clinical space in which the program operates and by the open, honest relationships that exist between faculty and students.

Participating students understand that it is a privilege to contribute to the oral and psychological health of this population and to help nurture them back to wellness and wholeness. Indeed, students often refer to Friday as “my favorite day of the week.” When a student says, “I feel that I have not only helped a patient to overcome psychological and dental issues, but that I have also helped to undo a wrong perpetrated by society,” we know that the education these students have received has been effective and has further broadened their understanding of what it means to be exposed to every possible physical condition patients may present.

The first group of students participating in the program, all Class of 2009, were Vani Bhatnagar, Fairy Baxi, Mabel Coro, Karima Daniel, Dip Desai, Andrew Guttierrez, Dinh Nguyen, Hee Joo Pyon, Pamee Shah, Deepthi Rao, Cecelia Sorrelle, Chia Ying Yu, and Kimberly Zambito. NYUCD commends them all for giving their time, skill, and commitment to ensure the PSOT’s success.

Special thanks for initiating and helping to develop the program go to Dr. Anthony Vernillo, Professor of Basic Science and Craniofacial Biology, Dr. Allen Keller, Founder and Director of the Bellevue/NYU Program for Survivors of Torture, Dean Charles N. Bertolami, and Executive Vice Dean Richard I. Vogel.

Innovations in Predoctoral Education:

CUSTOMIZED CLINICAL TEACHING VIDEOS

By Meir Kozlovsky, DDS

Clinical Assistant Professor of Cariology & Comprehensive Care
NYU College of Dentistry

Mark S. Wolff, DDS, PhD

Associate Dean for Predoctoral Clinical Education;
Professor and Chair,
Department of Cariology & comprehensive Care
NYU College of Dentistry

During the past decade, biomedical research, approaches to the treatment of disease, and the delivery of health care have all undergone profound changes, necessitating the introduction of innovations designed to improve the quality, efficiency, and relevance of dental education. One situation that comes immediately to mind is the challenge of facilitating students' ability to transition from didactic knowledge to practical, hands-on experience.

This is a challenge that has been with us from the earliest days of dentistry, when the mantra, "see one, do one, teach one," was the basis for an apprenticeship model of hands-on dental education. As dentistry became a learned profession incorporating basic science education and was integrated into a university teaching model, schools throughout the U.S. and Europe exchanged the apprenticeship model for an amphitheater approach that made it possible for a demonstration to be performed by an expert in front of a large class. But this approach, with large groups of students straining to view a limited operating field, had a built-in weakness. Later came the advent of small group demonstrations, but since the small group format requires many instructors per group, as opposed to a single lecturer in front of a large class, a new wrinkle occurred as the range and diversity of teaching styles tended to undermine consistency in the learning experience.

In today's new technologically driven environment, these problems are no



longer insoluble. Video presentations, particularly digital online video presentations, provide students with a pragmatic and flexible approach to facilitating the transition from didactic to practical experience. Videos can be viewed on any computer; they can be projected in a classroom, or even viewed on an iPod® while exercising. They can also be uploaded to online sites such as Blackboard Learning Systems™ or iTunes U (both available to NYU dental students). Using this new technology, students acquire a new set of skills that focus on self-directed learning. They have great flexibility in designing the study methods that work best for them. They can access the training programs in advance of the laboratory session; use the programs during the laboratory session; and/or review them later at their leisure in preparation for treating a patient.



A restorative procedure shown in great detail thanks to an unobstructed view (from the operative Class 1 video).

within dental education. This is not to say that dental schools do not use videos; on the contrary, many dental schools contract with private production companies to direct, edit, and produce teaching videos that can cost well over \$50,000 per video. But once these are produced, they cannot be altered, which rapidly leads them to become extinct.

Several years ago, my colleagues, Drs. Kumar Shanmugam and William F Skiba, and I got together and decided to utilize the skills we had acquired as videography and video editing hobbyists to produce a series of eight streaming videos featuring

expert clinicians demonstrating and describing fixed prosthodontic preclinical and clinical procedures, step-by-step.

Over the past several years, the productions have become increasingly sophisticated. New high-definition cameras allow enhanced and enlarged unobstructed close-up views that can be shared with students, creating a net video effect that enables students to view the procedure from three synchronous views: from the side, in front of the operator, or as the operator, thus viewing the procedure as if they were present and moving around the patient.

The carefully scripted videos have

“Given the advanced state of digital learning technology, it’s ironic that very few viable digital video training products are available within dental education.”

Given the advanced state of digital learning technology, it’s ironic that very few viable digital video training products are available

an audio track that explains precisely “why” the procedure is performed as well as “how” it is being performed. The entire video is carefully edited to meet the standards of the course director using state-of-the-art digital editing software. Everything is done in-house, with our team having sole responsibility for filming, editing, and final formatting of all videos.

As our education program changes and adapts to reflect new advances in care, we are able to edit the production to reflect the latest develop-

ments, update our video library, and expand the library as needed. Student response to the videos has been extremely enthusiastic. In fact, after viewing the video production available in the D2 fixed prosthodontics course last year, the second-year students asked for videos in other areas. The latest NYU College of Dentistry training program video focuses on basic wax-up techniques for an anterior and a molar tooth.

Under the supervision of the department chair, Dr. Mark S. Wolff, and with the assistance of Dr. Barnett Bucklan, director of the dental anatomy and first-year operative dentistry courses, a talented dental

student, Dr. Alberto Ambriz, Class of 2009, was videotaped performing the wax-up of an anterior and a posterior tooth. As a result, students are now able to view in great detail the technique of waxing the teeth for dental anatomy at their leisure. This allows a better understanding of the

esthetics, form, and function of the tooth being reproduced. In addition, it liberates the faculty from the burden of performing demonstrations and allows consid-

erably more time for students to self-evaluate and to be evaluated by their supervising faculty.

At the request of our students, a restorative dentistry video demonstrating Class I and II preparations for amalgam as well as the final restoration has also been produced. This unique video, filmed in high definition, allows an unmatched close-up view of the procedure using two camera angles. As a result, the rubber dam placement, securing the clamps with floss, the positioning of the handpiece and the related action of the cutting instrument now become visible on a large-scale image. Being able to follow the

preparation and the placement of the restorative material, all in real time, provides an excellent, comprehensive guide to this core procedure. This video also allows students to view and review every aspect of the procedure at their leisure, as access to this visual aid is online. Plans are currently underway to produce a full series of restorative dentistry videos.

This in-house project, started in 2005, now consists of a library of 14 DVDs ranging from ergonomics in the simulation lab, to pouring of alginate impressions, to full coverage preparation and three-unit bridge preparation and construction of a provisional restoration. The video library, offering an outstanding opportunity to educate and to learn, is available to NYU dental students 24 hours a day.

“Several of my colleagues and I decided to utilize the skills we had acquired as videography and video editing hobbyists to produce a series of eight streaming videos.”



NYU's Dental Faculty Practice Offers Mini Residency for Predoctoral Students

In addition to providing a venue for NYU College of Dentistry faculty to practice privately, and giving private-practice patients the added value of access to dentists who all have teaching positions at NYUCD, thus marrying clinical expertise with academic authority, NYU's Dental Faculty Practice also provides a clinical site for predoctoral student education. The opportunity for dental students to have a private-practice experience as part of their clinical training is believed to be unique to NYUCD.

According to Dr. Cosmo V. DeSteno, Associate Dean for Clinical Affairs and Chief Operating Officer of the NYU Dental Faculty Practice, "Beginning in the summer following their third year, five groups of six students each work one day a week at the NYU Dental Faculty Practice located adjacent to the New York University Health Center at the University's main campus in Greenwich Village. Students participating in the program, a 40-week 'senior elective mini residency,' must be in good academic standing with a grade-point average of 3.2 or higher."

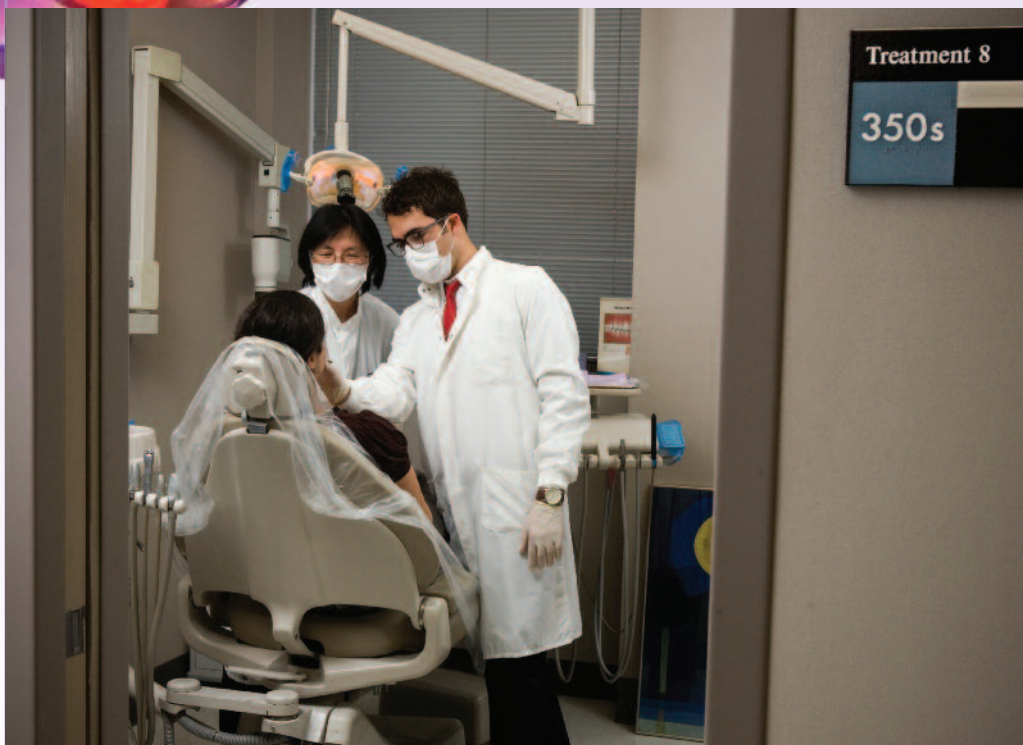
"Although a supervising faculty member would come to my treatment room at the Faculty Practice to answer my questions and to check on the care I was providing, faculty rarely sat chairside for most of a patient's appointment, as is often the case in the predoctoral patient care centers at the college," says Dr. Stephen DiBenedetto, '09, who plans to go into private

practice in Connecticut.

"I learned to work quickly and efficiently, seeing an average of seven patients a day compared to seeing two patients a day at the college," added Dr. DiBenedetto.

Although the "mini residency" students have a demanding schedule, they also enjoy personalized attention from their supervising faculty, explains Dr. Wen-Ing Kao, a Clinical Assistant Professor of Cariology & Comprehensive Care, who is the on-site program director.

"Because each student

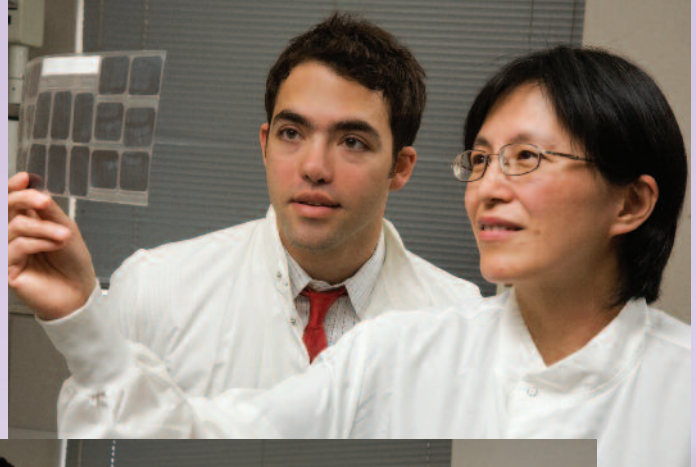


works with the same small group of faculty members throughout the year, the professors develop a close relationship with the students and get to know their strengths and weaknesses particularly well," says Dr. Kao.

"The students I treated were like the people I expect to treat when I go into private practice after completing a general practice residency at Nassau University Medical Center," says Dr. Concetta Mangiaracina, '09. "They took an active interest in their care, kept their appointments, and were eager to learn how to improve their oral health."

"Although they are still students," notes Ms. Barbara Donofrio, Director of the NYU Dental Faculty Practice, "the students are nevertheless expected to assume many of the responsibilities of a practicing dentist. For example, any student who can't make it to the Practice is responsible for finding another student in the program to cover for them. We also expect students to be familiar with the Faculty Practice fee schedule, and to be comfortable discussing it with their patients."

"The Faculty Practice is the place to be for any student who wants to become a general dentist and boost their skills in operative dentistry and basic restorations," says Dr. Eric Steinbach, '09, who will enter a general practice residency program in September at Long Island College Hospital. "When I trained at the Faculty Practice, I developed a special sense of responsibility for my patients. When one patient needed extra time to complete her comprehensive treatment plan, I remained at the Faculty Practice for a month beyond the end of the mini residency to see her case through to a successful completion."



Students at the NYU Dental Faculty Practice have the opportunity to consult with faculty members, including Dr. Cosmo V. DeSteno, center, NYUCD's Associate Dean for Clinical Affairs and COO of the Faculty Practice.

“ Each NYU dental student is assigned to a private treatment room and is overseen by licensed dental faculty in the diagnosis and treatment of his or her patients, who are students from other NYU schools and colleges enrolled in NYU's popular Stu-Dent Plan. ”

Starting from Scratch, the Arizona School of Dentistry & Oral Health Pushes the Envelope of Curricular Reform

As a former associate director for public health programs in the California Department of Health Services and former area health officer serving the west area of the Los Angeles County Department of Health Services, my vision as inaugural dean of the Arizona School of Dentistry & Oral Health (ASDOH) is strongly colored by my public health education and professional background. That vision, simply stated, is to fill a public health niche. And because we are a new school, founded in 2003, we have the luxury of starting from scratch, which makes us a very agile organization.

ASDOH recognizes that the traditional model of dental education is not as relevant as it once was, and that to be relevant, dental education must constantly evolve. We also recognize that there is no perfect solution to the education and training of tomorrow's dentists, but one possibility, which we have adopted, is an educational model that seeks to educate strongly community-minded dentists who are well equipped not solely to meet dental needs, but also to integrate dental care into total health care, especially as it concerns the needs of inner-city and rural populations. Our students are being groomed to have a greater understanding of systemic health, a greater willingness to be linked to the medical community, and a greater commitment to improve overall health, rather than just teeth.

THE ASDOH MODEL

To produce the kind of dentist who embodies the ASDOH vision, we realized at the outset that we had to make curricular reform a priority. Indeed, if we were to succeed in integrating a significant amount of community-based and interdisciplinary elements into the curriculum, it was incumbent on us to drastically revise the traditional, jam-packed dental education curriculum.



By Jack Dillenberg, DDS, MPH

Dean, Arizona School of Dentistry & Oral Health;
NYU College of Dentistry Class of 1971

One of our most important decisions in that regard was to eliminate the traditional first-year basic sciences curriculum of separate courses in biochemistry, biology, physiology, pharmacology, and anatomy, and to replace it with a comprehensive, biomedical modular approach of one- to two-week courses focusing on body systems, including the circulatory, digestive, endocrine, immune, lymphatic, muscular, respiratory, and neurological systems. Moreover, rather than employ a residential basic science faculty, we decided to bring in external basic science faculty who work in intense, one-on-one relationships with students in these modules and then stay in contact with them throughout the course of their first year.

This approach has proven remarkably successful. Our students take the national boards right after their first year, rather than after their second year; and our students to date have achieved a 94 percent pass rate the first time they have taken the test.

Another successful innovation involves having every full-time clinical faculty member take one of the first-year basic science modules along with the students. The faculty members develop clinical cases based on what they learned in the module, which are then presented to students for study in their third year. This approach creates a bridge from the basic science modules to the clinical care environment and allows students to understand the connection between their basic sciences education and the clinical care they are learning to provide.

The ASDOH model relies on an exceptional cadre of motivated, experienced learning guides who work closely with students in both the preclinical and clinical phases of the degree program. This is a more student-centered approach than in traditional dental education, and it requires a high degree of mentoring and nurturing by the faculty, none of whom, including the dean, is tenured, since we believe that tenure sometimes breeds complacency and we want all of our faculty to be at the top of their game. In a similar vein, instead of having department chairs, we have co-directors; and while the distinction may be subtle, we believe it advances our goal of creating a less hierarchical, more collaborative approach to dental education. As with the modular approach to basic sciences education, this decision has

yielded impressive results, as exemplified by the fact that the 2009 graduating class achieved a 100 percent pass rate on the Western Regional Board Examination.

Our highly motivated faculty members are matched by a carefully

chosen student body. ASDOH places a very high value on community service as part of the admissions process, and since we receive over 3,200 applications each year for 69 slots, our admissions process is necessarily highly selective. The kind of student we are looking for may not be the kind of student that other dental colleges are looking for, but we are committed to selecting students who not only have excellent academic credentials but who also have built a record of community service over a long period of time.

“ASDOH recognizes that the traditional model of dental education is not as relevant as it once was, and that to be relevant, dental education must constantly evolve.”



That spirit of community service is nurtured throughout the curriculum. Indeed, each student is required to plan and implement three community service projects each year and all fourth-year students spend four weeks as comprehensive care providers, treating people at over 65 sites in VA hospitals, community centers, and homeless shelters in locations as disparate as Alaska (see related story on p. 82), Montana, Maine, Florida, Texas, California, and New Mexico, where they treat 8–12 patients a day. Because they gain such robust clinical experience, all ASDOH students graduate with a certificate in public health as well as a DMD degree, and many go on to

complete a master's degree in public health. It is our hope that when these students graduate, they will return to their hometown health centers to provide care in the communities that need it most.

“I tell my students, ‘for a turtle to go forward, he’s got to stick his neck out.’ That’s what’s happening to dental education—it’s starting to turn a corner and I’m glad to be on the bus.”

To that end, we have developed a strong partnership with the National Association of Community Health Centers, which recommends students from their component cen-

ters for admission to ASDOH. These students are all guaranteed an interview, and, if accepted, they are strongly encouraged throughout their dental education program to return to practice in their hometowns after graduation.

GIVING PEOPLE A HEALTHCARE “HOME”

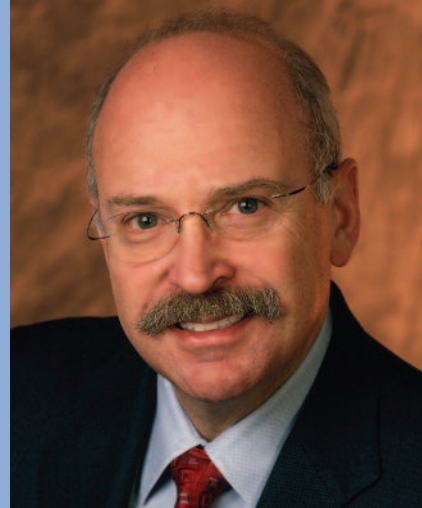
Data from national surveys indicate that patients in dental care are not necessarily linked to a healthcare “home,” meaning that they may have significant unmet primary care medical needs. At ASDOH, we view this situation as an opportunity to educate our students to expand the boundaries of the care they provide and to reach out to other healthcare providers to integrate total health care into oral health care and oral health care into total health care, so that whether patients see only a dentist, or only a medical provider, they will nevertheless have a comprehensive health-care “home.”

To achieve this objective, we teach our students to be more interdisciplinary and interprofessional and more community-minded than they have been in the past; to place a greater overall emphasis on prevention and population-based issues that determine health, including tobacco cessation, and to become more involved in the social sciences, because all of these activities will make them more comfortable working with physicians, physician assistants, and other health-care providers to provide comprehensive patient care.

For example, if we at ASDOH see a patient with severe periodontal disease, we want our students to feel obligated to contact a local physician or physician’s assistant and to offer to work together to determine if that patient has undiagnosed systemic disease and to formulate a plan to put the patient on the path to improved overall health.

Decisions about dental education that shape the public’s health are not made casually. But if positive change is to occur, dental educators must be willing to take risks and to encourage their students to be less risk-averse. As I tell my students, “for a turtle to go forward, he’s got to stick his neck out.” That’s what’s happening to dental education—it’s starting to turn a corner and I’m glad to be on the bus.

“MY CLASSMATE, JACK DILLENBERG, CLASS OF 1971”



By Jonathan L. Ferencz, DDS, FACP
Clinical Professor of Prosthodontics
NYU College of Dentistry

“What makes me most proud about Jack’s accomplishments as Dean is that he has brought to dental education a concept he started as a dental student at NYU in the late 60s. Jack was a strong leader as a dental student, serving as class president all four years during a time of student unrest throughout the country. Despite his long hair and outspoken demeanor, he led a group of students in providing free oral health services to a group of underprivileged individuals in the East Village who had no access to care. His commitment to community service and outreach has been his mission since that time, guiding him through a career in public health and culminating in his becoming the founding Dean in Arizona. His example of community service and outreach by dental faculty and students has truly served as a model for dental education in the United States.”

The Impact of Biomaterials Research on the Future of Dental Practice Through the Lens of PEARL* Network Research:

A CONVERSATION WITH VAN THOMPSON, DDS, PhD,
AND PETER BLANCHARD, DDS, MBA



Dr. Thompson is Professor and Chair of the Department of Biomaterials and Biomimetics, NYU College of Dentistry; Co-Principal Investigator of the PEARL Network Grant; and Member, PEARL Executive Management Team

*In 2005, NYUCD received a \$26.7 million award from the National Institute of Dental and Craniofacial Research (NIDCR), part of the National Institutes of Health (NIH), to establish a regional practice-based network, PEARL (Practitioners Engaged in Applied Research and Learning).

Recently, Drs. Thompson and Blanchard sat down with *Global Health Nexus* to talk about the wide-ranging potential and the challenges of new applications for the use of biomaterials in dentistry.

Dr. Blanchard: As a private practitioner, I consider access to reliable research to be the greatest challenge to the use of biomaterials in private practice. Private practitioners are deluged with all kinds of advertising promoting new materials. Figuring out which materials work best is very difficult.

Dr. Thompson: That's why the research undertaken by the PEARL network is so important. By networking dental practices in research projects, PEARL allows us to begin to look at the outcomes of various techniques and to keep track of the latest biomaterials so that more detailed studies can evolve.

Dr. Blanchard: It's usually top down in the research community. But with the PEARL Network, this is really bottom up—dealing with the issues that frustrate dentists in their everyday practice. Research conducted by the PEARL Network has such great potential because it can inform our in-office clinical trials, and our results can help to frame the model for future trials.

The dental community is different from medicine because it's really a cottage industry. Other healthcare fields are organized into larger group practices and university-based research. I graduated from Georgetown, went into practice, and lost all contact with my academic institution. With its roster of distinguished practice-based researchers, the PEARL Network has helped me to realign my practice with academic research and gain access to quality information. PEARL is actively investigating biomaterials in a "real-world" setting. This work speeds the translation

of research into practice and facilitates building more effective patient-care protocols.

But it's also a matter of changing dentists' mindset. In dentistry, the insurers and the payer system motivate practitioners to treat dental disease surgically. At PEARL, we want practitioners to start thinking in terms of disease management, recognizing that caries and periodontal disease are chronic, infectious diseases of the mouth. We have available chlorhexidine and other antibacterials that reduce the numbers of bacteria causing these chronic diseases. Some naturally occurring sugars such as xylitol also help suppress bacteria. Using agents such as fluorides and calcium phosphate also helps heal the tooth. If we can actually remineralize teeth and catch a cavity early on, we can reverse the chemical equation, drive the minerals back into the tooth, and heal that cavity. Most people don't realize this.

Dr. Thompson: Yes, there is a shift going on in the biomaterials world regarding how to best deliver remineralization solutions. And again, the intent, as you point out, is a push toward management of the disease. PEARL is now looking into studies on ways to determine when caries is present in early stages and into developing a mechanism to report this in a patient record so that a dentist can follow his or her patients. In doing so, PEARL has the potential to help promote the use of diagnostic codes in dentistry.

Dr. Blanchard: Then we could use diagnostic codes to better communicate with the insurers, which could lead to very significant plan redesigns. For example, if a patient is assessed as high risk, their insurance benefit would then increase dramatically in terms of the preventive therapies we could use to help remineralize and control the infection.



Dr. Peter Blanchard is a practicing dentist in Westborough, Massachusetts; President of the for-profit Oral Health Center; and a member of both the PEARL Network Executive Committee and the Practitioner Advisory Group.





Dr. Thompson: We could also research biomaterials that might be used in those individuals to deliver remineralization therapy, perhaps through biomaterials that we bond to the teeth, which contain or release a combination of specific forms of fluoride, calcium, and phosphate.

At NYU, we are currently developing calcium phosphate scaffolds for generating new bone. We're also working on creating high-strength ceramics. This would offer an alternative for people interested in the best aesthetics who also have some concerns about metals in the mouth. However, these studies are not at the practice-based research level yet.

Dr. Blanchard: This is where PEARL can help. I feel that the key to PEARL's effectiveness is its ability to build a cadre of practitioners who are skilled and knowledgeable in conducting quality research and in applying the results in private practice. So much university-based research doesn't mirror the daily challenges of a private practice.

Dr. Thompson: They serve different purposes. In clinical trials conducted at NYU, we look at a select group of patients with one or two researchers performing all the work and then looking at that outcome over an extended period of time. With PEARL, we have what is called *effectiveness* research—a broad group comprised of 40 or 50 dental practices and practitioners using the biomaterials and conducting research, thereby broadening the user as well as the recipient base.

Dr. Blanchard: Part of the Surgeon General's 2000 report recommended speeding the translation of research into private practice since it generally takes about 15–20 years for fundamental discoveries in lab research to be implemented.

Dr. Thompson: That recommendation is in keeping with PEARL's mission. For example, PEARL has been looking at problems of post-operative hypersensitivity on the biting surfaces of the teeth. We are evaluating

resin-based composite restoration along with particular bonding agents and liners, or a combination of the two. The PEARL practitioners implementing these materials and techniques then engage their patients in follow-up, to find out whether they have sensitivity, and then we monitor that sensitivity over time.

Dr. Blanchard: And now we are getting ready to start a very challenging randomized clinical trial to look at sensitivity with lesions at the gum line. Many patients suffer from hypersensitivity to hot, cold, and sweet sensations because of these kinds of lesions. There is a wide range of desensitizing agents in use. The current study is designed to look at three of the more popular agents, including a desensitizing toothpaste, a resin sealant, and a flowable composite, to determine which is most effective.

Dr. Thompson: Sensitivity with lesions at the gum line is a familiar problem.. We believe it's related to a combination of prominence of a tooth that is exposed to brushing and a tendency to brush aggressively, which wears down the root and exposes the dentin itself.

Dr. Blanchard: So many products purport to treat hypersensitivity, and we have varied results. PEARL's research is designed to really nail it down, so that we can better communicate with our patients, and they'll trust that we have a viable solution. We can then make evidence-based decisions rather than simply say, "This is the greatest product that ever came down the pike."

Eventually, we hope that manufacturers may even consider coming to a respected practice-based research network such as PEARL and saying, "Here's a product with great potential. Let's try it in the 'real world' and evaluate its efficacy."

Dr. Thompson: I think that's a very astute point. And we think the field of dentistry will look to us as well. But it's an evolutionary process.

Conducted, condensed, and edited by Stephanie Susnjara

PEARL Network Evaluated by NIH

PEARL practitioner-investigators (P-Is) are conducting sound and credible clinical research, according to an evaluation of the PEARL Network conducted late last year by the National Institute of Dental and Craniofacial Research (NIDCR) of the National Institutes of Health (NIH)—the agency that awarded the seven-year grant that helped to establish PEARL and two other practice-based research networks, or PBRNs, in April 2005.

The review, which was intended to assess how PEARL was performing at the midpoint of the seven-year grant, was conducted by Dr. Sue Hamann, a science evaluation officer in the NIDCR Office of Science Policy & Analysis, who is responsible for evaluating programs funded by the NIDCR and who has an extensive background in developing and overseeing clinical research studies on behalf of industry.

Dr. Hamann's evaluation was based on site visits to 10 PEARL P-Is. She also met with PEARL Executive Committee members and clinical research associates to review PEARL Network research protocols and quality assurance procedures, and surveyed 19 P-Is at the 2008 PEARL annual meeting to assess their experiences with and attitudes toward clinical research. Similar reviews of the two other NIH-supported PBRNs were also conducted in 2008.

"My evaluation shows that PEARL is meeting the key objective of educating general dentists about clinical research practices," said Dr. Hamann. "PEARL's use of CRAs, or clinical research associates, has brought a superior level of expertise to the training process. The CRAs train the P-Is to follow the guidelines for Good Clinical Practice, an international ethical and scientific quality standard for conducting, recording, and reporting clinical trials."

Dr. Hamann added that the use of CRAs represents a model approach to quality assurance that enables PEARL to meet its objective of conducting sound and credible research, and noted that 89 percent of the P-Is she surveyed agreed that their participation in PEARL



Dr. Sue Hamann, a science evaluation officer in the NIDCR Office of Science Policy & Analysis, conducted the PEARL Network evaluation.

"My evaluation shows that PEARL is meeting the key objective of educating general dentists about clinical research practices," said

Dr. Hamann. According to Dr. Hamann, many P-Is have developed an appreciation for research, with 95 percent of those surveyed reporting that participation in clinical research promotes and builds their practice and facilitates critical reading of dental research literature, and 82 percent reporting an improvement in technical skills in the practice area they were researching.

introduced new standards or quality assurance to their practice. Dr. Hamann also said that PEARL's study manuals meet Good Clinical Practice guidelines, and she commended PEARL for the positive working relationship it has established with the institutional review board that must approve its research studies.

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literature, and 82 percent reporting an improvement in technical skills in the practice area they were researching.

Dr. Hamann also evaluated the impact of PEARL research on clinical practice. "When I asked P-Is involved in the deep caries treatment study how likely it is that they would change clinical practice as a result of the study, the average response was 3.5 on a scale of 1 to 5, with 5 indicating the highest likelihood of change. This suggests an evolution in attitudes in which the P-Is are becoming more open to questioning long-held treatment practices. I expect that we'll see changes to clinical practice as more research results are disseminated

through publications and meeting presentations."

In summing up her findings, Dr. Hamann recalled that dental PBRNs were considered an experimental concept when the NIDCR established PEARL and its sister networks in 2005. "Although PBRNs had been successfully used by physicians to test medical treatment protocols, no one had ever before attempted to have dentists evaluate operative procedures according to established clinical research procedures in a private practice setting. Based on my evaluation, the NIDCR has concluded that practice-based research can be an effective tool for improving general dental practice."

NIDCR National Institute of Dental and Craniofacial Research

If you are a dentist in private practice and are interested in joining the PEARL Network, please go to www.pearlnetwork.org.

The PEARL Network would like to acknowledge the following P-Is who were visited and interviewed by Dr. Hamann: Drs. Julie Barna, Susan Bernstein, Jeffery Chustckie, Stephan Fred, Ronald Girard, Analia Veitz-Keenan, William Levitino, Martin Man, Scott Schaffer and Kay-Tiong Oen.

Study: Sports Drink Consumption Can Cause Tooth Erosion

While sipping on sports drinks all day may provide an energy boost, this popular practice is also exposing people to levels of acid that can cause tooth erosion and hypersensitivity, NYU dental researchers have found.

In a recent study, the researchers found that prolonged consumption of sports drinks may be linked to a condition known as erosive tooth wear, in which acids eat away the tooth's smooth hard enamel coating and trickle into the bonelike material underneath, causing the tooth to soften and weaken. The condition affects 1 in 15 Americans and can result in severe tooth damage and even tooth loss if left untreated.

"This is the first time that the citric acid in sports drinks has been linked to erosive tooth wear," said Dr. Mark Wolff, Professor and Chairman of the Department of Cariology & Comprehensive Care at New York University College of Dentistry, who led the study. The findings were presented at the annual meeting of the International Association for Dental Research in Miami.

Dr. Wolff's research team immersed one-half of the specimens in a sports drink, the other half in water, then compared the two halves and discovered that the one exposed to the sports drink displayed a significant amount of erosion and softening.

"Five teeth were immersed in each drink for 75 to 90 minutes to simulate the effects of sipping on sports drinks over the course of the day," Dr. Wolff said.

"To prevent tooth erosion, consume sports drinks in moderation, and wait at least 30 minutes before brushing your teeth, to allow softened enamel to re-harden," Dr. Wolff advised. "If you frequently consume sports drinks, ask your dentist if you should use an acid-neutralizing remineralizing toothpaste to help re-harden soft enamel."

To prevent tooth erosion, consume sports drinks in moderation, and wait at least 30 minutes before brushing teeth, to allow softened enamel to re-harden.



Examples of tooth erosion as a result of heavy consumption of sports drinks.



Dental Student's Study Finds White Wine Can Make Tooth Stains Darker



Ms. Cristina Dobrescu, Class of 2010

According to Ms. Dobrescu's study, drinking white wine increases the potential for teeth to take on dark stains because the acids in white wine create rough spots and grooves that enable chemicals in other beverages, such as coffee and tea, to penetrate deeper into the tooth.

Every summer, dozens of NYU dental students live the life of a scientist, conducting research to gain a deeper understanding of the science behind the oral health conditions they will be treating as dentists.

One such student, Cristina Dobrescu, Class of 2010, spent part of the summer of 2008 conducting a study to determine why people who drink white wine are more likely to develop tooth stains than those who do not.

"I never used to give much thought to research," Ms. Dobrescu recalls, "but when I took Diagnosis and Treatment of Oral Diseases, a course dealing with issues such as tooth staining, dental caries, and periodontal disease, one of my instructors, Dr. Mark Wolff, told me that conducting research was an excellent way to learn more about some of the topics covered in the course while developing skills that will be useful to me as a practicing dentist."

"Being involved in research gives students an in-depth appreciation for science, for scientific methodology, and for comprehending what does and does not constitute valid scientific evidence," says Dr. Wolff, who is Professor and Chairman of the Department of Cariology & Comprehensive Care and Associate Dean for Predoctoral Clinical Education at the College of Dentistry.

"By becoming familiar with these concepts, the student will be able to acquire and assimilate new knowledge and adapt to future changes in practice and in the profession.

"Tooth staining is a common problem treated by dentists," added Dr. Wolff, who developed the wine study research protocol with Ms. Dobrescu and was a coinvestigator on the study. "Although it has long been



DR. TIMOTHY BROMAGE'S RESEARCH FEATURED IN NSF REPORT

known that red wine causes teeth to stain, we wondered why people who drink white wine also develop dark spots on their teeth."

According to Ms. Dobrescu's study, drinking white wine can increase the potential for teeth to take on dark stains because the acids in white wine create rough spots and grooves that enable chemicals in other beverages, such as coffee and tea, that also cause staining, to penetrate deeper into the tooth. Ms. Dobrescu submitted an abstract describing her findings to the International Association for Dental Research, which accepted it for presentation at its 2009 annual scientific meeting in Miami. Ms. Dobrescu presented the findings on April 1, the opening day of the conference. A program that aired recently on Food Network TV also featured findings from her study.

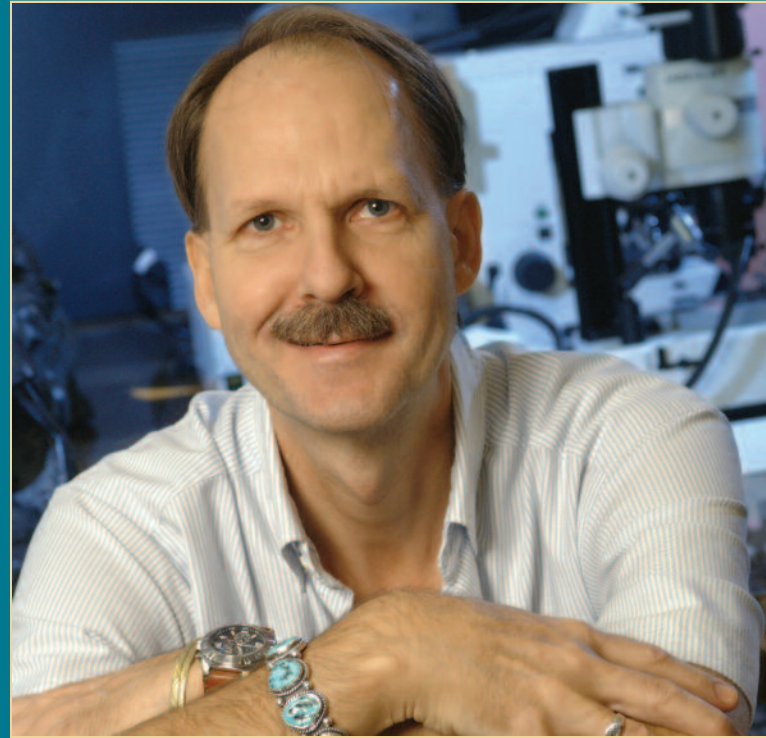
Ms. Dobrescu compared two sets of six cow teeth, whose surface closely resembles that of human teeth, and used a spectrophotometer, an instrument that measures color intensities, to evaluate staining levels.

She found that teeth soaked for one hour in white wine before being immersed in black tea had significantly darker stains than teeth immersed for one hour in water before exposure to the tea. According to Ms. Dobrescu, dipping teeth in white wine for one hour is similar to the effect of sipping the wine with dinner.

Still, red wine continues to beat out white wine when it comes to staining teeth. When Ms. Dobrescu repeated the experiment with red wine, the resulting stains were significantly darker than those in the white wine group. "Red wine, unlike white, contains a highly pigmented substance known as chromogen," she explained.

But she and Dr. Wolff note that connoisseurs concerned about staining need not cut back on their consumption. "The best way to prevent staining caused by wine, as well as other beverages, is to use a toothpaste containing a whitening agent," they advise.

Dr. Denise Estafan, an Associate Professor of Cariology & Comprehensive Care, was a coinvestigator on the study.



The 2009 edition of the National Science Foundation's prestigious *Highlights* program, which reports the best and brightest results of the work of a select group of scientists who have been awarded NSF funding, features an account of research conducted by Dr. Timothy Bromage, Adjunct Professor of Biomaterials & Biomimetics and of Basic Science & Craniofacial Biology.

The report, issued by the Physical Anthropology Program of the NSF's Division of Behavioral and Cognitive Sciences, features Dr. Bromage's discovery of a new biological clock, or rhythm, that controls many metabolic functions and is based on the circadian rhythm. Dr. Bromage discovered the rhythm while observing incremental growth lines in tooth enamel, which appear much like the annual rings on a tree. He also observed a related pattern of incremental growth in skeletal bone tissue the first time such an incremental rhythm has ever been observed in bone. The research was initially presented at the 2008 meeting of the American Association for Dental Research and was published in the May 2009 issue of *Calcified Tissue International*.

NYUCD/NYUCN Make Major Impact at ADEA and IADR/AADR Meetings

NYUCD/NYUCN posters and presentations dominated both the 2009 American Dental Education Association (ADEA) annual meeting and the International Association for Dental Research (IADR)/American Association for Dental Research (AADR) annual meeting.

With 51 posters and presentations by students, faculty, and administrators, NYUCD had the largest presence of any institution at the ADEA meeting in forums including the Faculty Development Workshop, Technology Expo, and programs sponsored by special interest groups in cariology, development, and alumni affairs. To view the complete list of NYUCD/NYUCN presentations, please go to www.nyu.edu/dental/research.

NYUCD also had a major presence—its largest ever—at the combined general session of the IADR/AADR, with a total of 69 presentations, including 37 presentations by dental students on subjects ranging from bone grafting to composite restoration, and a presentation by an NYUCN student on the periodontal visit as a potential site for diabetes screening. To view the complete list of presentations, please go to www.nyu.edu/dental/research.

“No institution came close to matching NYUCD/NYUCN in terms of

quantity, quality, and range of presentations, causing more than a few of the other dental school deans present to ask me how such an extraordinary achievement was possible,” said Dean Bertolami. “I told them that our secret was the ‘NYU hydraulic effect,’ meaning that the sheer size and quality of the academic community that collectively constitutes the Colleges of Dentistry and Nursing at NYU assure that NYU’s contribution to research, education, and practice can be inordinately large, dominating virtually any academic or clinical domain it enters. In short, when we come together, we become a powerhouse.”



Dean Bertolami cuts the ribbon at the opening session of the 2009 ADEA meeting.

Study Finds New Evidence of Periodontal Disease Leading to Gestational Diabetes



A new study by NYU dental researchers has uncovered evidence that pregnant women with periodontal (gum) disease face an increased risk of developing gestational diabetes even if they don't smoke or drink, a finding that underscores how important it is for all expectant

In addition to its potential role in preterm delivery, evidence that gum disease may also contribute to gestational diabetes suggests that women should see a dentist if they plan to get pregnant, and after becoming pregnant. Treating gum disease during pregnancy has been shown to be safe and effective in improving women's oral health and minimizing potential risks.

mothers—even those without other risk factors—to maintain good oral health.

The study, led by Dr. Ananda P. Dasanayake, a Professor of Epidemiology & Health Promotion at New York University College of Dentistry, in collaboration with the Faculty of Dental Sciences at the University of Peradeniya, Sri Lanka, eliminated smoking and alcohol use among a group of 190 pregnant women in the South Asian island nation of Sri Lanka, where a combination of cultural taboos and poverty deter the majority of women from smoking and drinking. The findings support an earlier study led by Dr. Dasanayake that found evidence that pregnant women with periodontal disease are more likely to develop gestational diabetes than pregnant women with healthy gums.

More than one-third of the women in the new study, which was conducted over the course of one year, reported having bleeding gums when they brushed their teeth. The women were given a dental examination and a glucose challenge test, which is used specifically to screen for gestational diabetes. According to Dr. Dasanayake, those women found to have the greatest amount of bleeding in their gums also had the highest levels of glucose in their blood. Dr. Dasanayake said that he expected the final data to show that between 20 and 30 of the women had developed gestational diabetes.

Gestational diabetes is characterized by an inability to transport glucose—the main source of fuel for the body—to the cells during pregnancy. The condition usually disappears when the pregnancy ends, but women who have had gestational diabetes are at a greater risk of developing the most common form of diabetes, known as Type 2 diabetes, later in life. Asians, Hispanics, and Native Americans are at the highest risk for developing gestational diabetes. All of the women in the Sri Lanka study were of Asian origin, while 80 percent of the New York study subjects were Hispanic.



Dr. J. William Costerton

Student Research Exposition Features Dr. J. William Costerton and Prize-Winning Posters

Fourteen students from the College of Dentistry and one student from the College of Nursing were awarded prizes at the 2009 Student Research Exposition. The prize-winning students presented posters selected from 118 submissions. The students shared the spotlight with Dr. J. William Costerton, Director of Microbial Research in the Department of Orthopedics and Director of the Biofilm Research Center for Genomic Sciences at the Allegheny-Singer Research Institute, who spoke on "Microbial Biofilms in Nature and Disease." NYUCD Associate Dean for Research Dr. Louis Terracio presided over the ceremony and presented the seventh annual NYUCD Distinguished Scientist Award to Dr. Costerton.

The student winners and their submissions are listed below:

AADR Research Fellowship; and Michael C. Alfano OKU Award

Ms. KeunHee "Chrissy" Park, DDS '11
Characterization of Skeletal Muscle Satellite
Cells Isolated from Adult
Animals and Expanded in Culture
Advisor: Dr. Louis Terracio

Student Research Group Award

Ms. Thikamphaa Bertrand, DDS '12
Relationship Between Interleukin-6 and
CCL2 Production by Oral Carcinoma Cells
in Response to Bacteria Products
Advisor: Dr. Zoya Kurago

Outstanding Case Presentation by a DDS Student; and Oral & Maxillofacial Pathology, Radiology & Medicine Student Research Award for an Outstanding Clinical Poster

Ms. Maryam Toufani, DDS '11
BOTOX® For the Treatment of Classical
Trigeminal Neuralgia
Advisor: Dr. David Sirois

VIOlight Jonathan A. Ship Student Research Award

Mr. Christopher Chiu, DDS '12
Developing a Classification Schema for
Open-Ended Responses to a Question
Identifying "At-Risk" Groups Among
Volunteers for Biomedical Studies
Advisor: Dr. Ralph Katz

DNA Genotek Award for Oral Health Research

Ms. Florine Abraham, DDS '12
Molecular Analysis of Bacteria Associated
With Osteonecrosis of the Jaw
Advisor: Dr. Deepak Saxena

Dean's Research Award

Mr. Robert Range, DDS '12
The Effect of MAC on Mitochondrial
Morphology
Advisor: Dr. Kathleen Kinnally

ADA/Dentsply Student Research Award

Mr. Eldon Matthew Lamb, DDS '11
Vector Analysis of Carcinoma Nest
Expansion Following Dendritic Cell Contact
Advisor: Dr. Zoya Kurago

Nursing Award

Ms. Nadine Iris Drescher, PhD
Candidate, Nursing
Factors Associated with OR Nurses' Stress
Levels During and Six Months after
Implementation of a Computerized
Intraoperative Documentation System
Advisor: Dr. Wendy Budin

Great Expressions Dental Centers Award

Dr. Karishma Juman, PG '09
Chemokine Expression in Orthodontic
Tooth Movement
Advisors: Dr. Cristina Teixeira, Dr. Mani
Alikhani

Postgraduate Resident Award in Periodontics

Dr. Leticia Casanova, PG '09
Implant Placement in the Posterior
Mandible—Pre-Extraction Diagnosis -
A CT Scan Study
Advisors: Dr. Michael Bral, Dr. Stuart Froum

Postgraduate Resident Research Award in Pediatric Dentistry

Dr. Natasha Khurana, PG '09
Smoking Prevention in Children Using
Olfactory and Visual Deterrents
Advisor: Dr. Amr Moursi

Postgraduate Resident Award in Orthodontics

Dr. Jeff Ding, PG '09
Evaluation of Accuracy of Facial Growth
Prediction by Computer Prediction
Program (Dolphin Imaging 10.5): Burlington
Growth Study Between Age 9 Versus
Age 18
Advisor: Dr. Seong Han



**Postgraduate Resident Award
in Implant Dentistry**

Dr. Paulina Barrientos, PG '09
The Effect of Vital Bone and Survival
for Implant Placement in Augmented
Sinuses

Advisors: Dr. Dennis Tarnow, Dr. Joseph
Zaky, Dr. Nicolas Elian, Dr. Sang-choon Cho,
Dr. Stephen Wallace, Dr. Stuart Froum

Master of Science Research Award

Ms. Marinée G. Cabrera, MS in
Biomaterials, '10

Fatigue Failure Modes of Two
Implant-Supported Oxide-Ceramic
Fixed-Partial-Denture Systems

Advisor: Dr. Christian Stappert

**Postdoctoral Research Award; and
Dean's Award for Postdoctoral Research
(best overall presentation)**

Dr. Shin-Young Ryu, Department of
Basic Science & Craniofacial Biology
Extracellular ATP Mediates the Intercellular
Ca²⁺ Wave Induced by Mechanical
Stimulation in Human Submandibular
Gland Cells

Advisor: Dr. Kathleen Kinnally



Dr. Terracio presented NYUCD's
Distinguished Scientist Award to
Dr. Costerton.

Two from NYUCD Selected as Finalists for Frechette Research Awards



From left: Dr. Christian Stappert, Ms. Marinée Cabrera, Ms. Nataliya Davydova, Dr. Yu Zhang

NYUCD expresses hearty congratulations to Ms. Nataliya Davydova, NYUCD Class of 2011, and Ms. Marinée Cabrera, Junior Research Scientist in Biomaterials & Biomimetics and MS in Biomaterials, Class of 2010, on being selected by the International Association for Dental Research (IADR) as finalists for the 2009 Arthur R. Frechette Prosthodontic Research Awards, which recognize original research by new investigators in two categories: one for prosthodontic research undertaken with a materials science or bioengineering-oriented protocol, and the other for prosthodontic research undertaken with a biological sciences and tissue engineering-oriented protocol.

Ms. Davydova's presentation, "Fatigue Damage and Micro-Leakage Study of Resin-Based Composite Crowns," was mentored by Dr. Yu Zhang, Assistant Professor of Biomaterials and Biomimetics. Ms. Cabrera, mentored by Dr. Christian Stappert, Assistant Professor of Periodontology & Implant Dentistry, presented "Fatigue Failure Modes of Two Implant-Supported Oxide-Ceramic Fixed-Partial-Denture Systems."

HIV Research Update Presented by Dr. Daniel Malamud

Dr. Daniel Malamud, a Professor of Basic Science & Craniofacial Biology and Director of the HIV/AIDS Research Program at NYUCD, and a Professor of Medicine at the NYU School of Medicine, presented a research update earlier this year on his NIH-funded study, "Crosstalk Among Oral & Gastrointestinal Soluble Innate Factors, HIV, & Microbes." The event was designed to introduce local physicians and other healthcare providers who specialize in the treatment of HIV, in an effort to recruit drug therapy naive HIV-positive subjects who will subsequently begin HAART (Highly Active Anti-Retroviral Therapy).

The Crosstalk project is a multidisciplinary study, comprising a talented and diverse group of investigators from NYUCD, the NYU School of Medicine, and the Rockefeller University. The five-year, \$6.2 million grant was awarded to Dr. Malamud in 2007 by the National Institute of Dental & Craniofacial Research, a division of the NIH. The study's overall goal is to define interactions between cytokines, host defense molecules, and bacteria in HIV infection and subsequent antiretroviral therapy. The study seeks to examine 85 HIV-positive subjects before and after the administration of HAART, in addition to a cohort of HIV-negative control subjects. Subjects will undergo complete oral health examinations, and be followed over the course of two years. Subjects will have blood and saliva collected, as well as tissue samples from the mouth and gastrointestinal tract.

In addition to Dr. Malamud, who heads the Crosstalk study, Principal Investigators of the research projects include Dr. Haiteng Deng, Director, Proteomics Research Center, Rockefeller University; Dr. Yihong Li, Associate Professor of Basic Science & Craniofacial Biology at NYUCD; and Dr. Michael Poles, Assistant Professor of Medicine, Microbiology, & Pathology at the NYU School of Medicine. The Clinical Core is headed by Dr. Joan Phelan, Professor and Chair of the Department of Oral & Maxillofacial Pathology, Radiology, & Medicine at NYUCD. The Administrative/Biostatistical Core is headed



by Dr. Malamud and Dr. Robert Norman, Research Associate Professor at NYUCD and at the NYU School of Medicine, and Director of Biostatistics for the Bluestone Center for Clinical Research at NYUCD.

Said Dr. Malamud, "This event served to raise the profile of our study in the New York HIV/AIDS community, and resulted in several other presentations at local hospitals and Community Advisory Boards."

"This event served to raise the profile of our study in the New York HIV/AIDS community, and resulted in several other presentations at local hospitals and Community Advisory Boards."

Recruiting the **BEST**

DR. NICOLA PARTRIDGE

has joined NYUCD as the new Chair of the Department of Basic Science & Craniofacial Biology.

Dr. Partridge succeeds Dr. Dianne Rekow, who has been appointed Provost of the newly formed Polytechnic Institute of NYU.

Dr. Robert Boylan, Associate Professor of Basic Science & Craniofacial Biology, has been serving as interim chair of the department.

Dr. Partridge comes to NYUCD from the UMDNJ-Robert Wood Johnson Medical School, where she has served since 2000 as Professor and Chair of the Department of Physiology & Biophysics. She is a national and international authority in the area of molecular endocrinology and in bone and mineral research. Her special expertise is in the role of parathyroid hormone action in bone and mineralized tissue. She also has expertise in investigating pulsed electromagnetic fields that stimulate bone formation. Her work is aimed at developing new signals for non-healing fractures and other improvements in orthopedic therapies.

Having assembled a critical mass of bone researchers in a variety of departments, NYUCD's goal has been to attract a strong leader who could galvanize and energize this emerging research ensemble and who could develop synergies both within this community and beyond. Dr. Partridge, a senior bone researcher, will be responsible for leading this group and also adding to its ranks by recruiting additional basic science faculty, particularly in the area of bone biology.



MR. KENNETH M. FAUERBACH

has been appointed Chief Information Officer (CIO) for the Colleges of Dentistry and Nursing. Mr. Fauerbach has been with NYU for over 23 years, with Information Technology Services (ITS) since its inception in 1999, and, prior to that, with Telecommunications. Most recently, he was Executive Director, IT Planning, Continuity, and Compliance Services. He joined NYU as a member of the team that planned and installed the University's telephone system.

Mr. Fauerbach is an active member of the NYU community. He has served on several University-wide committees, including Member, Data Processing Risk Assessment Task Force; Member, University's Sustainability Task Force Steering Committee; Co-chair, Environmental Assessment working group; and as a University Senator representing the AMC. Additionally, from 1985 to 2007, he was known as "the voice of NYU," as his voice could be heard on the inclement weather hotline.

In his new position, Mr. Fauerbach is responsible for the full range of information services at the Colleges, including clinical, administrative, and academic computer systems and services, as well as information technology support for researchers. Mr. Fauerbach earned a master's degree in Professional Studies from the Interactive Telecommunications Program (ITP) of NYU's Tisch School of the Arts. He also taught Project Management at ITP for 11 years.





DR. KAREN G. RAPHAEL, formerly a Professor of Psychiatry and Director of Research in the Department of Psychiatry at the New Jersey Medical School of the University of Medicine and Dentistry of New Jersey, has been appointed a Professor of Oral & Maxillofacial Pathology, Radiology & Medicine. Dr. Raphael earned an MA and a PhD in Psychology from Hofstra University, and an MS in Epidemiology from Columbia University.

MS. CARRIE PHELPS has been appointed Assistant Director for Financial Aid Services. Ms. Phelps was formerly the financial aid liaison between NYU's central Office of Financial Aid and the financial aid offices at the University's individual schools. She earned an MS degree in secondary school counseling and an MS in secondary school administration, both from the University of Scranton.



DR. MARCELA ROMERO-REYES, formerly a Postdoctoral Fellow in Neurosciences in the Headache Research and Treatment Program of the University of California at Los Angeles, has been appointed an Assistant Professor of Oral & Maxillofacial Pathology, Radiology & Medicine. Dr. Romero-Reyes earned a DDS degree from Universidad Nacional Autonoma de Mexico School of Dentistry, a PhD in oral biology and a certificate in orofacial pain, both from UCLA, and a certificate in medical, dental, and health sciences from Universidad Nacional Autonoma de Mexico School of Dentistry.



Promoting our Own

DR. NANCY DOUGHERTY, Clinical Associate Professor of Pediatric Dentistry, has been promoted to Director of the Advanced Education Program in Pediatric Dentistry.

Dr. Dougherty earned a DMD degree from the University of Pennsylvania School of Dental Medicine and an MPH from the University of Massachusetts at Amherst.



DR. STEPHANIE E. STRICKLAND, formerly a part-time Clinical Assistant Professor of Pediatric Dentistry, has been promoted to full-time Clinical Assistant Professor of Pediatric Dentistry. Dr. Strickland holds a DMD degree and a certificate in pediatric dentistry from the University of Alabama at Birmingham School of Dentistry.

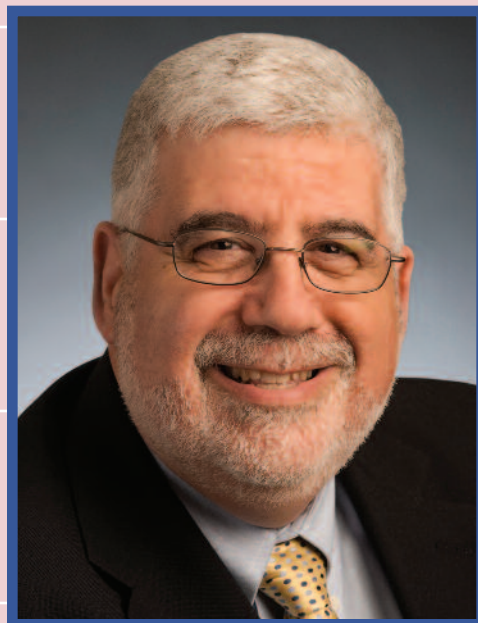
DR. PAULO G. COELHO, formerly a Research Scientist in the Department of Biomaterials & Biomimetics, has been promoted to Assistant Professor of Biomaterials & Biomimetics. Dr. Coelho earned a DDS degree from Pontificia Universidade Catolica do Parana in Brazil, an MS in Biomaterials, a PhD in Materials Science and Engineering, and an MS in Materials Engineering, all from the University of Alabama at Birmingham.





DR. AMY TRUESDALE, PG Pediatric Dentistry, '04, and Assistant Professor of Pediatric Dentistry, has been appointed to the newly created position of Associate Director of the Advanced Education Program in Pediatric Dentistry. Dr. Truesdale earned a DDS degree from Stony Brook University School of Dental Medicine.

DR. JEFFREY S. BLYE, '76, formerly a part-time Clinical Assistant Professor of Cariology & Comprehensive Care, has been promoted to full-time Clinical Assistant Professor of Cariology & Comprehensive Care. Dr. Blye completed a general practice residency at Bronx Municipal Hospital Center and was in private practice for 25 years.



MS. WINNIE FURNARI, formerly a part-time Clinical Assistant Professor of Dental Hygiene, has been promoted to a full-time Clinical Assistant Professor of Dental Hygiene. Ms. Furnari holds an AAS degree in Dental Hygiene from Orange County Community College, a BS in Health Education from Empire State College, and an MS in Biosecurity & Disaster Preparedness from St. Louis University.

DR. SUMITRA S. GOLIKERI, PG Pediatric Dentistry '07, formerly a part-time Clinical Assistant Professor of Pediatric Dentistry, has been promoted to a full-time Clinical Assistant Professor of Pediatric Dentistry. Dr. Golikeri earned a DMD degree from Tufts University School of Dental Medicine and a Certificate in Basic Sciences from Rutgers University.



MR. AMIAD FINKELTHAL, formerly Assistant Director of Communications & Public Affairs, has been promoted to Associate Director of Communications & Public Affairs. Mr. Finkelthal's responsibilities include writing for *Global Health Nexus* and *Interface*, and increasing media coverage of NYUCD.

NYUCD congratulates our new faculty, staff, and administrative recruits and recently promoted members of our community, all of whom play a vital role in advancing our educational, research, and patient care enterprise. We are proud to salute them in these pages.

Visiting Scholars From Germany and Brazil Collaborate on Biomaterials Durability Testing

In late 2006, when Dr. Petra C. Guess arrived at NYUCD for a two-year stint as a Visiting Scholar in the Department of Biomaterials and Biomimetics from Ludwigs University College of Dentistry in Freiburg, Germany, her research on the durability of all-ceramic dental crowns had been limited to experiments with micro-thin slivers of zirconia.

Working with her mentor, Dr. Van Thompson, Professor and Chair of Biomaterials and Biomimetics, she quickly moved her research into a more advanced phase. By simultaneously utilizing all four chewing simulator machines in the NYUCD biomaterials laboratory, Dr. Guess was able to gauge the impact of variable-force chewing cycles on a range of crown sizes and shapes. This research is helping companies understand why porcelain-veneered zirconia crowns often develop cracks large enough to ruin a restoration, and how those crowns and veneers might be redesigned for greater durability.

Dr. Ricardo Zavanelli, a Visiting Scholar from Brazil in the Department of Prosthodontics is comparing Dr. Guess's findings to the results of similar durability testing on porcelain-veneered metal crowns. Dr. Zavanelli expects to test 100 crowns by the time he completes his appointment at NYUCD this summer.



"The methods that Dr. Zavanelli and Dr. Guess have developed are likely to become the standard for assessing future crown and veneer design changes."

Above: Dr. Van Thompson
with Dr. Guess.
Below: Dr. Zavanelli

NYU's Oral Surgery Program for International Dentists to Partner with Ireland's Royal College of Surgeons

Effective September 2009, the NYU College of Dentistry will introduce a three-year Advanced Education Program in Oral Surgery for International Dentists. The program has been accredited by the prestigious Royal College of Surgeons in Ireland (RCSI), which is recognized internationally for administering specialist examinations in both dentistry and medicine.

Candidates will be eligible to present themselves for the Member of the Faculty of Dental Surgery (MFDS) of the RCSI examination after successfully completing the second year of clinical training, and for the Fellow of the Faculty of Dentistry (FFD) of the RCSI Oral Surgery/Oral Medicine Examination upon successfully completing the third and final year of training. The program is open to internationally trained dentists who have completed Part One of the U.S. National Boards or Part One of the Royal College of Surgeons Faculty of Dentistry Examination.

The concept for the program originated with Dr. Brendan O'Connor, Clinical Assistant Professor of Oral & Maxillofacial Surgery, who was previously a Surgery Tutor and Clinical Examiner in General Surgery at the RCSI.

"This collaboration is the first of its kind between the Royal College of Surgeons in Ireland and a dental school in the United States. I am absolutely delighted with the new course and the link with the Royal College, as it offers our students the opportunity to obtain an internationally recognized qualification," said Dr. O'Connor.

To date, the Royal College of Surgeons in Ireland has accredited training posts in Bahrain, Brunei, Egypt, Jordan, Kuwait, India, Malaysia, Malta, Oman, Qatar, Singapore, Trinidad, and the United Arab Emirates.

"Graduates of the program will enjoy a greater degree of career mobility," said Dr. Robert Glickman, Professor and Chair of NYUCD's Mecca Department of Oral & Maxillofacial Surgery.

Dr. Michael Turner, Assistant Professor of Oral & Maxillofacial Surgery, will direct the new program, whose curriculum will include both didactic and clinical training in oral surgery and oral medicine. The full spectrum of oral surgery will be covered, from basic dentoalveolar surgery to more complex surgery, including implant reconstruction, maxillofacial trauma, and oncology.



From left, Dr. Michael Turner, Dr. Robert Glickman, Dr. Brendan O'Connor

Dominican Outreach Aims to Reduce Tooth Decay in Children by One-Third



February 2009 marked NYUCD's 14th visit to the Dominican Republic and its first outreach to the Dominican capital of Santo Domingo since the program was founded 12 years ago. During the weeklong mission, a 31-member NYUCD outreach team provided more than 1,700 treatments to 720 adults and children, and inaugurated a program aimed at achieving a one-third reduction in children's tooth decay in one year.

The team set up a temporary clinic in a public school in an extremely underserved area of this tropical island nation of sparkling beaches, lush forests—and high rates of sugar consumption.

"More than two-thirds of the patients had tooth decay," said Dr. Stuart M. Hirsch, Associate Dean for International Programs & Development, and the mission's clinical director, "a sure sign of frequent snacking on refined carbohydrates."

To arrest the process of decay before it becomes severe, Dr. Hirsch and his team provided sealants and fluoride varnishes to 363 children ages 3 to 12, and partnered with the Dominican Ministry of Health and Dr. Adolfo Rodriguez, President of the Dominican

Dental Society, to train students from local dental schools at Universidad Iberoamericana and Universidad Autónoma de Santo Domingo to reapply the varnishes every three months for one year. The goal is to reduce the rate of tooth decay by one-third by the time NYUCD sends its next outreach team to Santo Domingo in February 2010.

"This is a successful preventive model that we have used on other outreach missions—most recently in an underserved area in the upstate New York town of Hudson, where we have seen a significant decline in tooth decay rates since our first visit to the area in October 2008," said Dr. Hirsch.

In addition to being the team's first visit to the Dominican capital, the February 2009 mission marked the first time that faculty and residents from the Advanced Education Program in Endodontics made up part of the outreach team. The endodontists performed 65 root canal treatments and worked closely with DDS students, pediatric dentistry, and oral and maxillofacial surgery residents, and dentists from the Advanced Programs for International Dentists to coordinate restorative treatment. All told, the multidisciplinary team completed 479 restorations as well as 553 extractions. "Everyone worked with amazing efficiency," Dr. Jil Schaps, '09, recalls. "One 13-year-old girl arrived at the temporary clinic holding her hand over her mouth to hide embarrassing black spots on her teeth, and left with a broad smile after her two root canals and two composite restorations— which ordinarily involve several visits to a dentist—were completed in just four hours."

In addition to Dr. Hirsch and Dr. Schaps, the members of the outreach team included Dr. Miriam Robbins, Clinical Associate Professor and Associate Chair of the Department of Oral & Maxillofacial Pathology, Radiology, & Medicine; Dr. Michael Ghalili, Clinical Associate Professor of Prosthodontics; Dr. Lily Lim, Clinical Associate Professor of Pediatric Dentistry; Dr. Heather Baumhardt, Clinical Assistant Professor of Pediatric Dentistry; Dr. Paul Rosenberg, Professor and Chair of the Quartararo Department of Endodontics; Dr. Amogh Velangi, Clinical Assistant Professor of Oral & Maxillofacial Surgery; Mr. Michael Jackson, a sterilization technician; and Dr. Eugenia Mejia, Director of Admissions.

Also participating in the outreach were Dr. Joe DiBernardo, Advanced Education Program in Endodontics, '09; Dr. Karrim Thurman, Advanced Education Program in Endodontics '10; Dr. Shital Patel, Advanced Education Program in Pediatric Dentistry, '09; Dr. Kelly Kim, Advanced Education Program in Pediatric Dentistry, '10; Dr. Stephanie Winterer, Advanced Program in Pediatric Dentistry for International Dentists, '09; Dr. Perrine Balland and Dr. Miriam Molins, Advanced Program in Comprehensive Dentistry for International Dentists, '09; Ms. Sandra Cohen and Ms. Alicia Schraner, DDS '10; Ms. Rachel Hill, Program Administrator for the Office of International Programs and Development; and Class of 2009 DDS Program graduates Dr. Michael Bachman; Dr. Justin Ben Zvi, Dr. Benjamin Bush, Dr. Paul Chen, Dr. Thanh Do, Dr. Amy Hoch, Dr. Andrea Jordan, Dr. Jennifer Lo, Dr. Prospero Matos, Dr. Loan Nguyen, and Dr. Chris Verzosa.



Dental and Nursing Students Bring Caries Prevention Program to Honduras

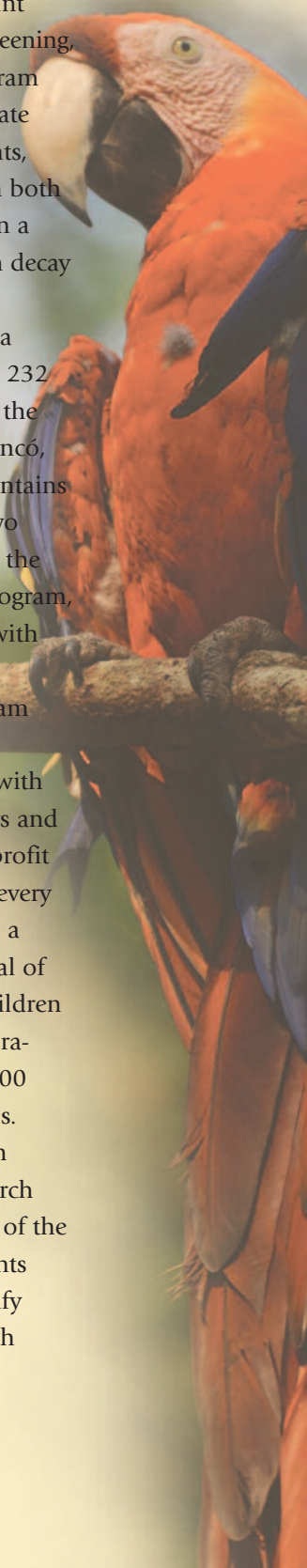


The Colleges of Dentistry and Nursing conducted their first joint community-based oral health screening, education, and prevention program outside of the United States in late April, when a team of 13 students, faculty, and administrators from both colleges traveled to Honduras on a six-day mission to prevent tooth decay in children.

Three pediatric residents and a dental hygiene student screened 232 three-to-six-year-old children in the villages of Nuevo Armenia, Chonco, and Boca del Monte in the mountains near the Guatemalan border. Two Spanish-speaking students from the Bachelor's Degree in Nursing Program, who had been trained to work with underserved populations, and a student from the Master's Program in Global Public Health with a

concentration in Oral Public Health, provided the children with preventive oral health education and trained school teachers and community health workers from Arte Accion, a local non-profit organization, to apply fluoride varnish to children's teeth every three months. Children with severe decay were referred to a temporary clinic erected by NYUCD in the regional capital of Copan Ruinas to handle emergency treatment for the children from the remote villages, as well as for extractions, restorations, root canals, sealants, and fluoride varnishes for 600 adults and children from Copan Ruinas and its suburbs.

Planning for the mission began in April 2008, when Dr. Donna Shelley, Director of Interdisciplinary Research and Practice, and Ms. Erin Abu-Rish, Nurse Coordinator of the College of Nursing mobile health van, interviewed 70 residents from the region, using qualitative research methods to identify healthcare needs in the area. They concluded that while much health care is needed, the greatest gaps are in oral health.



"Oral health problems are pervasive," Ms. Abu-Rish said. "Oral hygiene is not generally practiced in the villages. Most people can't afford to see private dentists, so they pull teeth themselves; they get abscesses."

"Based on our needs assessment, we decided that the most effective way to make a sustainable impact on oral health was to develop an education and prevention program targeting young children before they develop serious decay," said Dr. Shelley. "When we returned to the area in April 2009 to implement the program, we gathered the children in their local schools and showed them a Spanish-language DVD produced by the nursing students, which demonstrated the importance of maintaining good oral hygiene as well as the proper way to use a toothbrush."

"Although the kids were mesmerized by the DVD, we don't know whether any of them actually used the toothbrushes we distributed to them at the screening because this is not a common practice at home. When Arte Accion visits the schools to reapply the fluoride varnish, they will help the children decorate cups in which the children will keep their new toothbrushes. This is one way that teachers can make sure that the children's teeth are brushed at least once a day."

"When a dentistry-nursing outreach team returns to the villages in April 2010 for a follow-up visit, we hope to see a 50 percent reduction in the spread of tooth decay among the children," said Dr. Stuart M. Hirsch, Associate Dean for International Programs & Development, and the





mission's clinical director. "We also plan to provide basic treatments, such as extractions and sealants, while also arranging for those children requiring more extensive treatment to be transported to Copan Ruinas, where we will once again set up a clinic for patients requiring restorative, endodontic, and surgical care."

In addition to Dr. Hirsch, Dr. Shelley, and Ms. Abu-Rish, the outreach team included Dr. Mark Wolff, Associate Dean for Pre-doctoral Clinical Education and Professor and Chair of the Department of Cariology & Comprehensive Care; Dr. Charles Larsen, Clinical Assistant Professor of Pediatric



"Based on our needs assessment, we decided that the most effective way to make a sustainable impact on oral health was to develop an education and prevention program targeting young children before they develop serious decay."

Dentistry; Dr. Paddy Smithwick, Advanced Education Program in Pediatric Dentistry, '09; Dr. Christine Marcelo, Advanced Education Program in Pediatric Dentistry, '10; Dr. Feras Bokhamsin, Advanced

Program in Pediatric Dentistry for International Dentists, '09; Ms. Nancy Duclonat, BS in Dental Hygiene, '09; Ms. Brittany Bluth, BS in Nursing, '09; Ms. Andrea Vogel, BS in Nursing, '09;

Ms. Sukrita Matta, MPH; Ms. Amanda Meissner, Program Administrator, Office of International Programs and Development; Dr. James Toppin, Clinical Assistant Professor of Oral & Maxillofacial Pathology, Radiology & Medicine; Dr. James Apltauer, Clinical Assistant Professor of Cariology & Comprehensive Care; Dr. John Weise, Clinical Assistant Professor of Endodontics; Dr. Brendan O'Connor, Clinical Assistant Professor of Oral & Maxillofacial Surgery; Ms. Jill Fernandez, Clinical Associate Professor of Pediatric Dentistry; Dr. Aneta Mejia, Instructor in Cariology & Comprehensive Care; and Ms. Rachel Hill, Program Administrator in the Office of International Programs & Development.

Additional team members included Ms. Imani Holland, a sterilization technician; Dr. Marianna Delgado, Advanced Education Program in Endodontics, '10; Dr. Sanjit Singh, Advanced Program in Endodontics for International Dentists, '09; Dr. Ismael El-Khouly Castilla, Advanced Program in Comprehensive Dentistry for International Dentists, '09; Dr. Takanori Suzuki, Advanced Program in Comprehensive Dentistry for International Dentists, '09; Ms. Karen Milkosky, '10; Mr. Ryan Lee, '10; Mr. Aaron Land, '10; and the following students from the DDS Program Class of '09: Dr. Matt Shih, Dr. Cecilia Sorelle, Dr. Stacy Wolf, Dr. Andrew Young, Dr. William Wolff, Dr. Chinar Mahadkar, Dr. Nicholas Zeik, Dr. Lauren Petlick, Dr. Nicole Smith, and Dr. Dip Desai.

Implant Dentistry Faculty and Alumni Featured at Jeddah International Dental Conference



Dr. Tarnow with Dr. Khalil Al-Ali (left) and Dr. Abdullah Al Keraidis

Dr. Dennis P. Tarnow, Professor and Chair of the Ashman Department of Periodontology and Implant Dentistry, and several of his former students, were featured at the fall 2008 Jeddah International Dental Conference in Saudi Arabia, on "The Future Vision of Dentistry," a three-day meeting that drew 1,500 participants. The former students were Dr. Mohammad Al-Garni, who chaired the conference's Scientific Committee; Dr. Fawzi Al-Ghamdi, who chaired the Organizational Committee; Dr. Khalil Al-Ali, Chairman of the Department of Prosthodontics in Riyadh, Saudi Arabia; and Dr. Abdullah Al Keraidis, Director of Dental Affairs for the Jeddah Ministry of Health.

ON SABBATICAL, DR. DASANAYAKE CONDUCTS RESEARCH IN ASIA AND EUROPE

During a four month sabbatical last fall, Dr. Ananda Dasanayake, Professor of Epidemiology & Health Promotion and Director of the Graduate Program in Clinical Research, conducted collaborative research with faculty from universities in his native Sri Lanka and in France, the United Kingdom, Thailand, and Hong Kong. Highlights included a study on the link between periodontal disease and gestational diabetes

with scientists from the University of Peradeniya, Sri Lanka (see related article, page 37), and research on the effect of alcoholic beverages on the oral mucosa with coinvestigators from Kings College, London.



Fourth Annual Mission to Nicaragua Addresses Soaring Caries Rates Among School Children



The sweet aroma of fresh-baked pastries greeted the members of an NYUCD outreach team as they arrived in March 2009 at a school in Chiquilistagua, near Nicaragua's capital city of Managua, to set up a temporary clinic for their annual weeklong outreach mission. The 32-member team soon discovered that a bakery was located on the school grounds, and that children from the school spent their recess and lunch break consuming cookies and cakes, as well as candy from a nearby snack bar.

"It was a vivid illustration of the easy access that many Nicaraguan school children have to refined carbohydrates," said Ms. Rachel Hill, Program Administrator in the Office of International Affairs & Development, and the mission's coordinator, noting that the tooth decay rate among children at the school was 68 percent—among the highest rates in the world.

Dr. Aura Caldera, '08, an Instructor in Pediatric Dentistry and the mission's co-organizer, came to Nicaragua with a plan to combat the devastating effects of sugar consumption on children in Chiquilistagua, an impoverished town of 11,000 people and no dentist. She and her team provided 360 children with sealants and fluoride varnishes, and partnered with the Nicaraguan Ministry of Health and the dental school at the Universidad Americana Managua to train their dental students to reapply the varnishes every three months for one year. The goal is to reduce the rate of tooth decay by one-half by the time NYUCD returns to Chiquilistagua in March 2010.

In addition to applying the sealants and varnishes, the



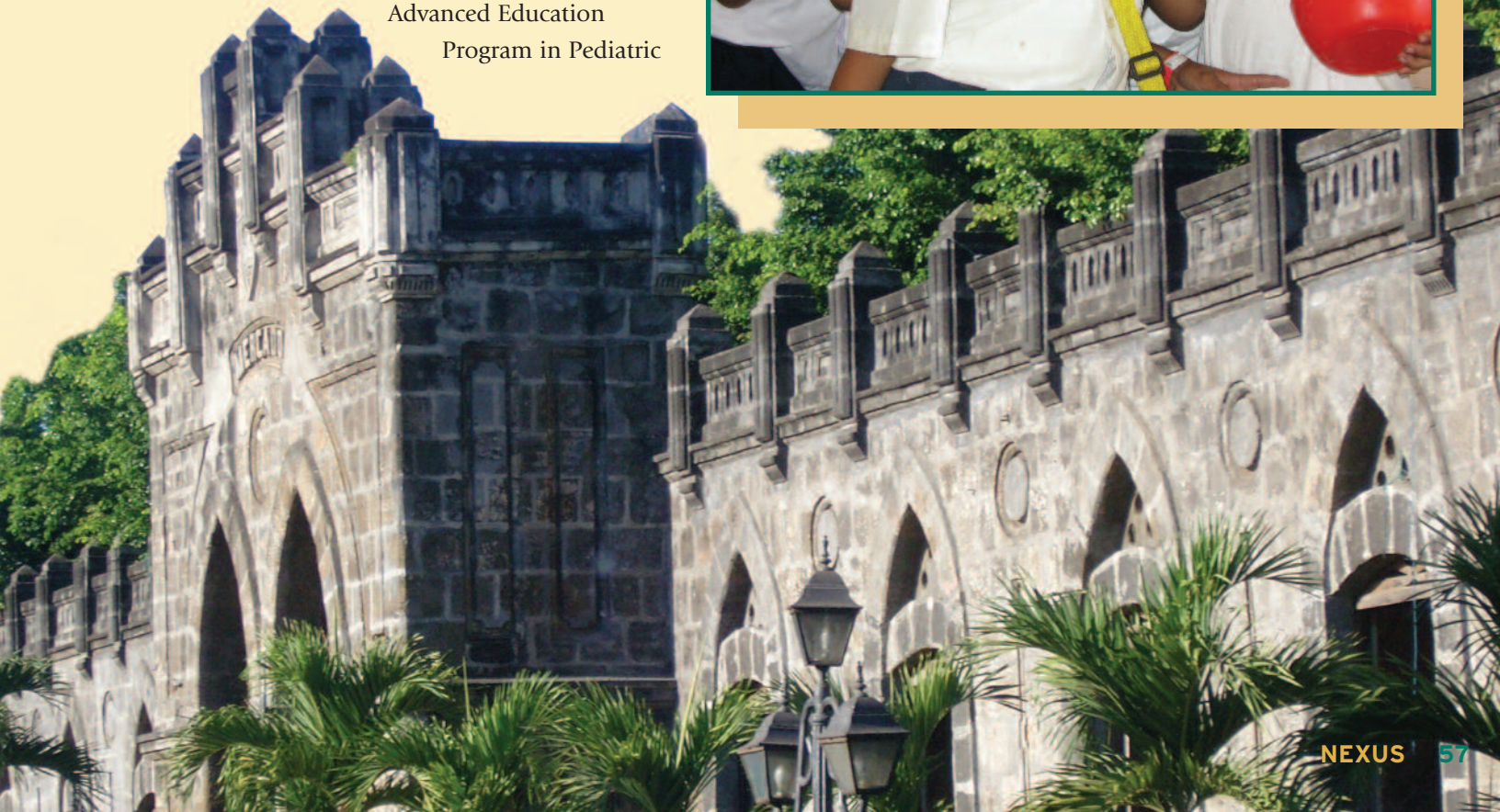
NYUCD team screened and treated a total of 547 adults and children, providing extractions, restorations, and root canal therapy. Among the patients were children from a local special-needs school.

In addition to Dr. Caldera and Ms. Hill, the members of the outreach team included Dr. Stuart Hirsch, Associate Dean for International Affairs & Development; Dr. James Toppin, Clinical Assistant Professor of Oral & Maxillofacial Pathology, Radiology, & Medicine; Dr. Todd Ross, Clinical Assistant Professor of Cariology & Comprehensive Care; Dr. Niven Tien, Teaching Fellow in Oral & Maxillofacial Surgery; Dr. Prenard Mickens, Clinical Assistant Professor of Endodontics; Dr. Luis Cruz, Adjunct Assistant Professor of Pediatric Dentistry; Mr. Isaiah Morse, a sterilization clerk; and Ms. Amanda Meissner, Program Administrator in the Office of International Affairs and Development.

Additional members of the team included Dr. Jared Frisbie-Teel, Advanced Education Program in Endodontics, '09; Dr. Adam Monroe, Advanced Education Program in Endodontics, '09; Dr. Sanjit Singh, Advanced Program in Endodontics for International Dentists, '09; Dr. Jennifer LaSasso, Advanced Education Program in Pediatric

Dentistry, '09; Dr. Amy Honig,
Advanced Education
Program in Pediatric

Dentistry, '10; Dr. Farrah Najib, Advanced Program in Pediatric Dentistry for International Dentists, '09; Dr. Natasha Yegorov, Advanced Program in Comprehensive Dentistry for International Dentists, '09; Dr. Ignacio Aliaga, Advanced Program in Comprehensive Dentistry for International Dentists, '09; Mr. Robert Block, '10; Mr. Michael Weisner, '10; Ms. Jenny Weng, '10; and the following students from the DDS Class of '09: Dr. Logan Banner, Dr. Aleksandr Baron, Dr. Manik Bedi, Dr. Mabel Coro, Dr. Christina Currie, Dr. Theodore Gialanella, Dr. Amy Isenberg, Dr. Pamee Shah, Dr. Jin Wang, Dr. Jessica Yeager, and Dr. Fan (Landon) Zhou.



DR. OLIVIER NICOLAY: A COMMITMENT TO INCREASED RIGOR IN ORTHODONTICS SPECIALTY TRAINING



“When I graduated from Paris Descartes University School of Dentistry in my native France in 1985,” recalls Dr. Olivier Nicolay, Clinical Associate Professor of Orthodontics and Director of the Advanced Education Program in Orthodontics at NYUCD, “I had to choose between pursuing my postdoctoral orthodontics training in an intensive, full-time program in the United States, or remaining in France, where only part-time programs were available.”

Dr. Nicolay chose to come to the United States, where he earned a certificate in orthodontics from the Harvard University School of Dental Medicine prior to joining NYUCD in 2002. “While it was difficult to leave France, the intensive training I received in the U.S. was a great investment in my future and made me appreciate the value of rigorous, hands-on clinical instruction.”

Because of his commitment to intensive, hands-on specialty training, Dr. Nicolay is enthusiastic about the expansion of NYUCD’s Advanced Education Program in Orthodontics from a two-year to a three-year program, effective September 2009. Says Dr. Nicolay, “The additional year will enable us to provide extensive instruction in such areas as the utilization of temporary anchorage devices and accelerated tooth movement through minimally invasive orthognathic surgery, as well as more exposure to multidisciplinary treatment for adult patients involving prosthodontists, periodontists, and oral surgeons.”

Also in September, Dr. Nicolay will become Director of the one-year Advanced Program in Orthodontics for International Dentists. His intention is to fully integrate both programs, with participants working side-by-side in a unified group practice that provides continuity of care for all patients.

“Dr. Nicolay has been the driving force behind the continued excellence and expansion of our programs,” said Dr. George Cisneros, Professor and Chair of the Department of Orthodontics. “As someone who was satisfied with nothing less than the most challenging clinical education for himself, he appreciates how important it is to give all of our students the kind of rigorous training that he received.”

DR. BIJAN KHAKNEGAR-MOGHADAM: AN INTERNATIONAL INNOVATOR IN PROSTHODONTICS EDUCATION

For the past three decades, Dr. Bijan Khaknegar-Moghadam, an Associate Professor of Prosthodontics and Preclinical Course Director in Removable Prosthodontics, has played a key role in shaping prosthodontics education, both in his native Iran, and, since 1985, at NYUCD.

A 1972 graduate of the Teheran University School of Dentistry, Dr. Moghadam earned a certificate in prosthodontics from the University of Iowa College of Dentistry in 1976, then returned to Iran the following year to oversee Teheran University's newly established advanced education program in prosthodontics and to teach prosthodontics to predoctoral students at the Isfahan University School of Dentistry. Dr. Moghadam introduced students in both schools to new concepts in complete and partial denture treatment, and authored the first prosthodontics manuals in Farsi, the national language of Iran.

After the Iranian Revolution, Dr. Moghadam returned to the United States. At NYUCD, his accomplishments include coauthoring NYUCD's first online *Preclinical Manual for Removable Prosthodontics*, which features dozens of pages of illustrations to guide students step-by-step through the process of placing both complete and partial dentures. Dr. Moghadam's daughter, Dr. Marjan Moghadam, Class of 1999, Advanced Education in Prosthodontics Program Class of 2002, a Clinical Assistant Professor of Prosthodontics, and co-director of the Fixed Prosthodontics Clinic, coauthored the manual, which is under consideration for publication in MedEdPortal, a central repository for high-quality, peer-reviewed, online educational resources cosponsored by the American Association of Medical Colleges (AAMC) and the American Dental Education Association (ADEA).

"Dr. Bijan Moghadam has worked tirelessly to bring innovative approaches to teaching and patient care," said Dr. Leila Jahangiri, Associate Professor and Chair of the Department of Prosthodontics. "For example, when a growing body of evidence suggested that an overdenture attached with just two implants could significantly improve bone retention in a patient's jaw for life, Dr. Moghadam took a leading role in making NYUCD the first dental school in the country to teach predoctoral students to make implant overdentures a standard treatment option. His ability to present complex new concepts in a clear and easily understandable fashion has earned him a reputation as a great mentor to both students and fellow faculty."



NYUCD RESEARCH TEAM RECEIVES \$1.9 MILLION NIH GRANT FOR HIV RESEARCH



Dr. David N. Levy

Seeking to shed new light on HIV's ability to survive in the body and cause disease, the National Institute of Allergy and Infectious Diseases at the NIH has awarded a five-year, \$1.9 million grant to an AIDS research team at the College of Dentistry to continue its study of a new mode of HIV replication that involves cooperation between viruses.

The team leader, Dr. David N. Levy, an Assistant Professor of Basic Science and Craniofacial Biology, discovered the mechanism in an earlier study he conducted with the assistance of a one-year pilot grant from CFAR, The Center for AIDS Research at the NYU School of Medicine.

HIV normally inserts its DNA into the DNA of the cells it infects in a process called integration that is inefficient and prone to failure, and can result in an aborted virus replication cycle. As a result, up to 99 percent of HIV DNA is found in an unintegrated form. Although the abundance of unintegrated DNA has long been known, its biological significance has not been clear.

In a paper published in the July 2008 issue of the journal *Retrovirology*, Dr. Levy and his team demonstrated that the unintegrated viruses can, in fact, replicate when they are assisted or "complemented" by viruses that

successfully integrate with the DNA of infected cells. Dr. Levy believes that this newfound cooperation among HIV viruses helps HIV persist in the body and evade immune responses.

"HIV rapidly mutates and evolves during infection, which prevents the immune system from successfully stopping virus replication" explains Dr. Levy, "and we have shown that these cooperative interactions speed up the evolution of the virus by increasing the amount of genetic exchange between viruses through a process called recombination.

"Previous work from my laboratory demonstrated that recombination between viruses occurs frequently, and our most recent study reveals that recombination is likely to be even more frequent than was previously thought.

"This new mode of virus replication has implications for many aspects of HIV biology and disease. Our expectation is that by better understanding this previously unknown mode of HIV replication, we can find new ways of slowing or stopping HIV replication and the disease it causes."

Dr. Dominik Wodarz, a Professor of Ecology and Evolutionary Biology at the University of California at Irvine, is a coinvestigator on the grant.

COLLEGE OF DENTISTRY AWARDED \$1 MILLION GRANT FOR STEM CELL RESEARCH

The New York State Department of Health recently awarded an NYU dental research team a three-year, \$1 million grant to study the potential use of stem cells to regenerate facial muscles to enable people with traumatic injuries to speak, eat, and smile normally again.

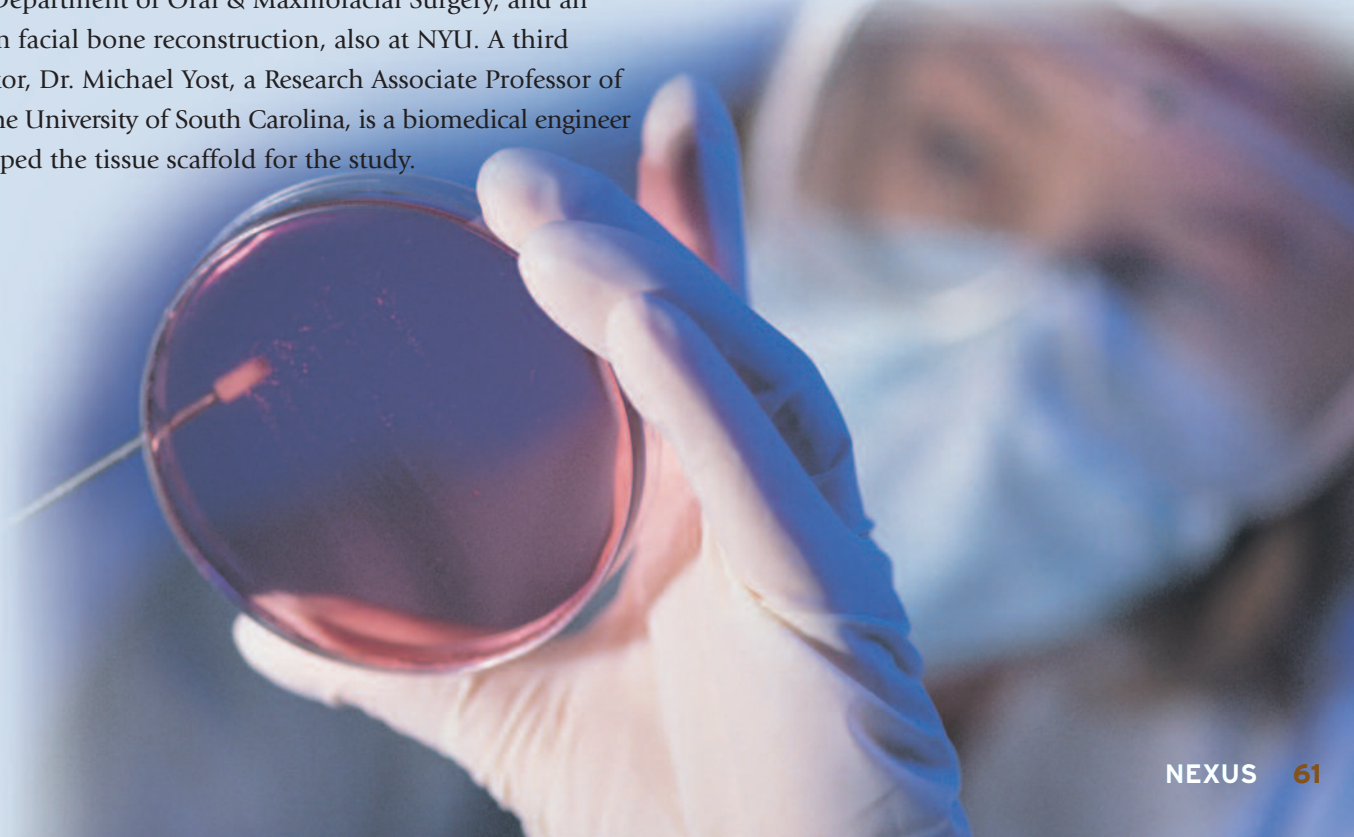
The team, led by Dr. Louis Terracio, Associate Dean for Research, plans to extract a small number of stem cells from the facial muscle of a pig, grow the cells into facial muscle on a tissue scaffold to develop a prosthesis, and transplant the prosthesis onto the pig's face to repair damaged muscle.

In an earlier study, Dr. Terracio and his team performed a similar stem cell transplant into a rat to correct a defect in an abdominal muscle. Pigs are being used for the new study because their extracellular matrix is similar to that of humans, and because successfully transplanting the stem cells in a large animal model would pave the way for a clinical trial on humans.

The new study is a multidisciplinary collaboration between Dr. Terracio, a developmental biologist with nearly 40 years' experience in tissue culture of muscle; Dr. David N. Levy, an Assistant Professor of Basic Science & Craniofacial Biology at NYU, who is an expert in flow cytometry and cell sorting of stem cells; and Dr. Robert S. Glickman, Professor and Chair of the Mecca Department of Oral & Maxillofacial Surgery, and an authority on facial bone reconstruction, also at NYU. A third coinvestigator, Dr. Michael Yost, a Research Associate Professor of Surgery at the University of South Carolina, is a biomedical engineer who developed the tissue scaffold for the study.



Dr. Louis Terracio



SIDE-BY-SIDE FOR MORE THAN 45 YEARS: DR. MARTIN KANE AND DR. STEPHEN J. CUCHEL— CLASSMATES, BUSINESS PARTNERS, PUBLIC HEALTH ADVOCATES, PHILANTHROPISTS



*"If dentistry
doesn't treat every-
body in society,
it's not a health
profession,"
says Dr. Kane.*

Dr. Stephen J. Cuchel and Dr. Martin Kane

For more than 45 years, since they met as classmates at the NYU College of Dentistry, where Dr. Martin Kane was president of Sigma Epsilon Delta and Dr. Stephen J. Cuchel was vice president, the two have been virtually inseparable. There was a brief, one-year period following their 1964 graduation from NYUCD, when Dr. Kane did a general dentistry residency at Greenpoint Hospital and Dr. Cuchel did a residency in oral surgery/anaesthesiology at Long Island College Hospital. But even then they shared a bond because the same person directed both residency programs.

After completing their residencies, Drs. Kane and Cuchel opened a private practice in Harlem, which quickly became very successful. In fact, within four years of starting the practice, they had six office locations. Their practice philosophy, which continues to this day, is based on the premise that dentistry is obligated to treat all members of society, and that quality dental care can be provided at reasonable fees.

Though it is perfectly accurate to call them "business partners," it is really an understatement. Drs. Kane and Cuchel are true visionary entre-

preneurs. In 1972, when HMO regulations were first promulgated, and HMOs were becoming very popular, they recognized that the changing healthcare environment offered a potential solution to a major dental healthcare issue; namely, access to care. People with third-party insurance were having difficulty accessing dental treatment. So after practicing privately for 10 years, Drs. Kane and Cuchel made the decision to become a not-for-profit health insurance company. In 1977, they received an insurance license to become the first dental HMO in New York State.

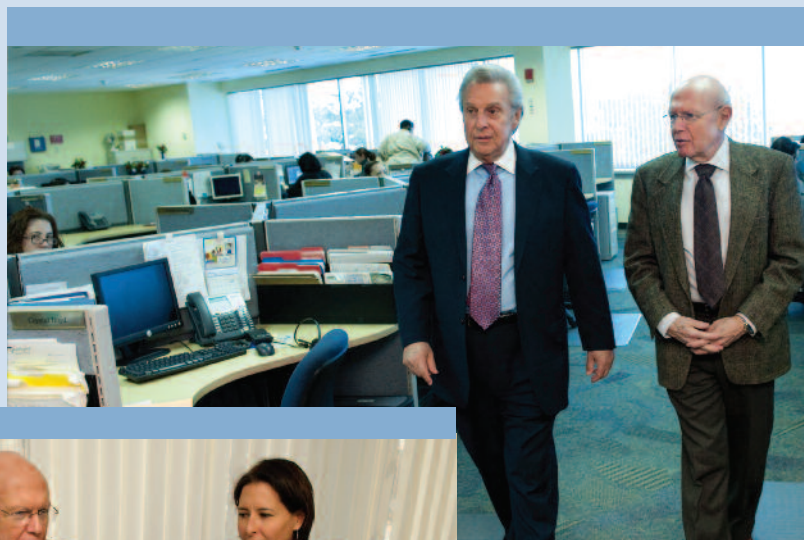
Today, Healthplex, Inc., spans 50,000 square feet, employs 310 people, and cares for the dental needs of 2.2 million people, making it the largest provider of dental benefits in the New York metropolitan area.

Drs. Kane and Cuchel began reaching out to labor unions and offering to work with them within the framework of their insurance. One of their proudest initiatives is their outreach to pediatricians, encouraging them to refer their patients to pediatric dentists.

Today, Healthplex, Inc., of which Dr. Kane is President and Dr. Cuchel is Chairman of the Board, is the largest provider of dental benefits in the New York metropolitan area. Located in Uniondale, New York, Healthplex, Inc., spans 50,000 square feet, employs 310 people, and cares for the dental needs of 2.2 million people.

In addition to building successful careers as healthcare entrepreneurs, Drs. Kane and Cuchel have also built an impressive record of support for their alma mater. "We had a great time in dental school," says Dr. Cuchel. "Everybody else complained, but for us it was a great four years." In the intervening years, they made numerous generous gifts to the college, but it was when Dr. Michael Alfano became Dean, and started transforming the educational environment, that they decided they wanted to substantially increase their gifts to ensure the continued momentum they saw occurring.

"We were very impressed by the



Drs. Kane and Cuchel with Natalie Cuchel Smith and David Kane, who are part of the Healthplex family, as well as the daughter and son, respectively, of Drs. Cuchel and Kane.

new emphasis on professionalism, on getting the faculty to treat students like professionals," says Dr. Kane, who had a bird's-eye view of the changes taking place at NYUCD thanks to his daughter, Rebekah, who also enjoyed her four years as an NYU dental student, graduating in 2001.

Now, with Dean Bertolami at the helm, they have been inspired by his focus on teaching excellence to increase their generosity even further,

by making a new, major gift to support teaching excellence at NYUCD, bringing their lifetime contributions to nearly \$1 million.

"NYUCD was clearly a pivotal part of our success," says Dr. Cuchel. "It was a place where we thrived. We're thrilled to be able to give back not only because of the importance of NYUCD in our own lives, but also because by helping to turn out increasingly more competent and accomplished dentists, NYUCD is helping to ensure that the people we provide services for will have more opportunities for quality care."

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NYS HEALTH FOUNDATION GRANT WILL SUPPORT DENTAL CARE FOR UPSTATE YOUNGSTERS

The New York State Health Foundation has awarded a one-year grant of nearly \$200,000 to NYUCD for its project, "Columbia County Oral Health Intervention Program." The grant application was based on data compiled during a highly successful dental outreach program for Head Start youngsters piloted by NYUCD in Hudson, New York, part of Columbia County, in October 2008, in cooperation with a local advocacy group, the Columbia Healthcare Consortium, the Columbia County Head Start program, and Columbia County Memorial Hospital.

The grant's principal investigator, Dr. Stuart M. Hirsch, Associate Dean for International Programs & Development, said, "This grant will provide funding for the initial year of a results-oriented, financially sustainable oral health intervention program in Columbia County to reduce the dental caries rate of 3,000 children in kindergarten through sixth grade by 95 percent over a three-year period. Approximately 750 of these children are Medicaid eligible, but there are no dentists who accept Medicaid in Hudson, New York."

Added Dr. Amr Moursi, Professor and Chair of the Department of Pediatric Dentistry, "The treatment approach will integrate oral hygiene education, oral disease prevention, and clinical care with a particular focus on community and parental involvement. The prospects for the program's success are excellent."

To view a video of NYUCD's outreach team in Hudson, New York, go to www.nyu.edu/media.production/file.sharing/dentalhudson/



MAJOR GIFT FROM HENRY SCHEIN CARES WILL EXPAND GLOBAL ORAL HEALTH OUTREACH

A gift of nearly \$1 million from Henry Schein Cares, the global social responsibility program of Henry Schein, the world's leading distributor of healthcare products and services to office-based practitioners, has created the Henry Schein Cares Global Student Outreach project, which will assist in narrowing the disparity in the delivery of oral healthcare services and information in underserved communities, both in the United States and abroad.

"We are absolutely delighted by this gift," said Dean Bertolami. "Over the years, Henry Schein and NYUCD have partnered on a number of outreach projects, particularly in Tanzania. With this latest gift, NYUCD will have the funds not only to maintain and expand its highly successful outreach model, which provides assessment, complete treatment, and ongoing preventive services to underserved children throughout the world, but also to publicize this model broadly in order to make it a catalyst for replication by other academic dental centers. In doing so, not only will more students be able to provide more care for vulnerable populations than could be provided by NYUCD alone, but more future practitioners at other dental schools will also be sensitized to access issues and to their responsibility as dentists to provide care and advocacy for underserved populations."

Mr. Stanley M. Bergman, Chairman and Chief Executive Officer of Henry Schein, Inc., and the guiding force behind the creation of Henry Schein Cares, said, "At Henry Schein we believe that we should give back to the communities in which we serve, and by doing so, we will 'do well by doing good.' We look for ways to participate in collaborative public-private partnerships around the world that address the complex healthcare challenges that we all face. This gift to the NYU College of Dentistry is a great example of collaboration to develop innovative ways of expanding access to care for those who need it most."



NYUCD's 2009 outreach to Honduras was supported by the Henry Schein Cares Global Student Outreach Program.

"With this latest gift from Henry Schein, NYUCD will have the funds not only to maintain and expand its highly successful outreach model, which provides assessment, complete treatment, and ongoing preventive services to underserved children throughout the world, but also to publicize this model broadly in order to make it a catalyst for replication by other academic dental centers."

NYUCD LINHART CONTINUING DENTAL EDUCATION PROGRAM DEDICATED



From left: Assistant Dean for Alumni Affairs & Development Rita Startup, Mrs. Ellen Linhart, Dr. Jan Linhart, Dean Bertolami, Assistant Dean for Continuing Dental Education Ken Beacham

The NYUCD Linhart Continuing Dental Education program was officially dedicated on June 3, 2009, at an elegant reception at New York City's Water Club hosted by Dean Charles N. Bertolami.

"Jan Linhart's story of an immigrant's successful rise to professional and social prominence through higher education is at the core of the American dream, as is his determination to give something back to his alma mater. By investing in continuing education at NYUCD, Jan and Ellen Linhart are keeping the dream alive. Their extraordinary generosity reflects their conviction that a dental degree is just the prelude to lifelong learning."

In his remarks, Dr. Linhart, a graduate of the Class of 1979, spoke of the major formative influences in his life, beginning with his parents. "My father," he said, "was a widely admired and respected Czechoslovakian





physician who emigrated to the United States with his young family after World War II, so that we could grow up in a free country. He was my role model and taught me that I could achieve anything I aimed for, as did my mother, a Buchenwald and Auschwitz survivor, who passed away just a few weeks ago. It was a source of profound joy to her that Ellen and I had made this gift to NYUCD.

"My second most formative influence, my wife, Ellen, has been the foundation of our family, which means everything to me. She has given me two wonderful sons, the gift of peace of mind, and her talent and dedication in helping to advance the Linhart dental practice, where she currently serves as Chief Marketing Coordinator.

"The third most important influence in my life has been the United States, both as the symbol of skyscrapers and big cars that I dreamed of as a young boy, and, since my arrival, as the place where dreams can come true.

"NYUCD's Continuing Dental Education program, which reaches out to the world, has extended the influence and impact of that dream. No less than the American dream itself, it is an engine for personal and professional renewal, and it is an honor for our family to have our name linked with it in perpetuity."



Top right: The Linharts with their sons Zach and Alexander
Center: An early evening view of the East River from the Water Club, where the event was held.
Bottom: Guests at the celebration

A GIFT FROM THE HEART FROM DR. LEONARD V. SETTEMBRINI, JR.

Recently, Dr. Leonard V. Settembrini, Jr., Class of 1988, and his father stopped by the College for a chat with Dean Bertolami and to view the Dr. Leonard V. Settembrini, Jr., Instructional Dental Technology Station, which was funded by a gift from Dr. Settembrini.

"I am so honored to have this opportunity to thank Dr. Settembrini for his generosity and to congratulate him on the naming in his honor of the College's Instructional Dental Technology Station," said Dean Bertolami.

"Dr. Settembrini is fondly remembered at NYUCD, most notably as an outstanding student mentor, advisor, teacher, faculty member, and administrator. It can truly be said of Dr. Settembrini that he embodies the highest ideals of the NYU College of Dentistry and its mission to serve the public."

"This gift comes from my heart," said Dr. Settembrini, who was forced by a serious illness to leave his duties at the College in 1999. "I loved teaching, loved my colleagues, and loved my entire time at NYUCD. It is a privilege for me to be able to give something back that is benefiting current students and faculty."



Dean Bertolami with Dr. Leonard V. Settembrini, Jr., and his father, Dr. Leonard V. Settembrini, Sr.



Dr. Leonard V. Settembrini, Jr.

Instructional Dental

Technology Station

WHY WE GIVE: DONORS SHARE THEIR REASONS FOR SUPPORTING NYUCD

It is extremely gratifying to all of us at NYUCD that our philanthropic support comes from a cross section of individuals, including alumni, faculty, students, staff, and other friends, as well as from corporations and foundations. Below are comments from several of these individuals that we are privileged to share with you.

"There is no better way to provide support for NYUCD's continued excellence in education, research, and patient care than through giving to NYUCD. Words cannot describe how much I appreciate the wonderful educational experience I am having at NYUCD. As a grateful student, I wanted to give something back by making a contribution to ensure our college's continuing success."

Naoshi Hosomura, Class of 2010

"I donate to the NYU College of Dentistry out of gratitude for the wonderful career that NYUCD helped me to achieve. In addition to providing financial support to the College, I also mentor current NYU dental students, both because I want to help them succeed and to honor the legacy of the wonderful faculty who mentored me when I was in school."

Dr. Michael Leifert, Class of 2002

"Giving to NYUCD is a small gesture of thanks to the institution that enabled me to advance my career both as a scholar and a teacher. The College gave me a sense of belonging and became my second home and family."

Dr. Benjamin Godder,

Clinical Associate Professor of Cariology & Comprehensive Care

"NYUCD has provided me the opportunity of a lifetime to grow professionally and in many other ways. NYUCD is not only a great place to work, it's a great place to give back to, because you can see the impact of your contribution on student life, facilities, staff benefits, and all other phases of campus life."

Ms. Toni DePena, Department Administrator, Dental Hygiene Programs

To make a gift to NYUCD, please call or e-mail Assistant Dean Rita Startup at rita.startup@nyu.edu or 212.998.9920.

NYUCD in the News

A SAMPLING OF RECENT MEDIA COVERAGE



ABC7 Eyewitness News broadcast an interview with Dr. Mark Wolff, Associate Dean for Predoctoral Clinical Education and Professor and Chair of the Department of Cariology and Comprehensive Care, about a study he headed that found a connection between drinking white wine and teeth staining. The story was broadcast during NYUCD's annual free public health screening program conducted in partnership with ABC7, which also promoted the screenings with public service announcements and live coverage.

ABC7 broadcast a story about a new treatment developed by Dr. Kenneth Fleisher, Assistant Professor of Oral & Maxillofacial Surgery, that reverses osteonecrosis of the jaw.

The Journal of the Danish Dental Association interviewed Dr. Mark Wolff, Associate Dean for Predoctoral Clinical Education and Professor and Chair of the Department of Cariology and Comprehensive Care, about dental education in the U.S. *AM New York* interviewed Dr. Wolff about whether dental offices that provide spa services are becoming a trend.

NYUPhysician featured Dr. Page Caufield, Professor of Cariology and Comprehensive Care, in an article entitled "The Transcendent Microbiome."

Health magazine quoted Dr. Michael Apa, Instructor in Cariology and Comprehensive Care, in an article about smile makeovers.

The Brooklyn Daily Eagle reported on a special event at PS 73 in New York City featuring NYU's dental and nursing vans together for the first time to provide care to youngsters. Brooklyn Borough President Marty Markowitz was on hand to welcome the vans.

FOX 5
WNYW • NEW YORK

Fox 5 TV interviewed Dr. Wolff about finding affordable dental care at dental schools. *NY1 News*, *The New York Post*, *Univision Channel 41*, and *Parade Magazine* also featured interviews with Dr. Wolff about obtaining affordable dental care at dental schools during a difficult economy. In addition, WPIX-TV featured an interview with Dr. Andrew Schenkel, Clinical Associate Professor of Cariology & Comprehensive Care and Group Practice Director, for a story about obtaining affordable dental care at dental schools.

Fox 5 TV interviewed Dr. Amr Moursi, Associate Professor and Chair of the Department of Pediatric Dentistry, for a Medical News Special story on children's dental health.

PARADE

MARTHA

National Public Radio also broadcast an interview with Dr. Wolff about the white wine study, which was reported by scores of broadcast, print, and online news outlets and blogs around the world, including CNN and CNN Health. The Daily Telegraph, the New York Times (Chir

Martha Stewart Living Magazine interviewed Dr. Mark Wolff, Professor and Chair of the Department of Cariology & Comprehensive Care and Associate Dean for Predoctoral Clinical Education, for an article about having oral health throughout life. Dr. Wolff was also interviewed by the Martha Stewart Sirius satellite radio program, "Whole Living," on the relative merits of conventional versus natural

Doctor Radio, a Sirius satellite radio channel sponsored by the NYU Langone Medical Center, interviewed Dr. Amr Moursi, Associate Professor and Chair of the Department of Pediatric Dentistry, about children's oral health; Dr. Wolff about diseases of the mouth; Dr. Robert Glickman, Professor and Chair of Oral and Maxillofacial Surgery, about treatment for TMD; and Dr. John R. Calamia, Professor of Cariology & Comprehensive Care, about advances in aesthetic dentistry.

Lives, a television program broadcast by the Food Network, featured an interview with Dr. Wolff about tooth stains caused by consumption of tea, coffee, sports drinks, and wine.

Food Detectives, also featured an interview with Dr. Page Caufield, Professor of Cariology and Comprehensive Care, about the high sugar content in a surprisingly large number of foods.

with Dr. Wolff about the effectiveness of mouthwashes.

allure

Drug Week cited an NYUCD research study led by Dr. John Ricci, Associate Professor of Biomaterials and Biomimetics, that provides new information about bone research. The study was also reported in *Medical Devices & Surgical Technology Week*.

food



CNN reported the results of a study led by Dr. Wolff showing a connection between consuming sports drinks and tooth erosion. The story was also reported by *ABC7* in New York and Los Angeles; *Science Update*, a nationally broadcast radio program produced by the American Association for the Advancement of Science; and additional broadcast, print, and online news outlets and blogs worldwide, including *Fox TV News*, Houston; the *Daily Mail* and *Daily Telegraph* (UK); and *El Mundo*, (Spain). Dr. Wolff was also interviewed about the study for articles that will appear in upcoming issues of *Men's Journal*; *Parenting* magazine; and *VIVmag*, an online magazine covering women's health.

The Journal of the California Dental Association reported on a study led by Dr. David N. Levy, Assistant Professor of Basic Science & Craniofacial Biology, which found that the human body may harbor many more HIV viruses capable of replicating and contributing to the development of AIDS than previously thought; and on a study of twins led by Dr. Patricia Corby, Assistant Professor of Periodontology & Implant Dentistry, and Dr. Walter Bretz, Associate Professor of Cariology & Comprehensive Care, which showed that flossing significantly decreases gum disease and cavity-causing bacteria.

Fox 5 TV broadcast an interview with Dr. Wolff about the effectiveness of various tooth-whitening products.

NY1 News broadcast an interview with Dr. Wolff about the pros and cons of Oraverse, a new drug that reverses the side effects of local anesthetics following dental procedures.



The New York State Dental Journal reported a \$1 million grant awarded by the New York State Department of Health to Dr. Louis Terracio, Associate Dean for Research, for a study on the potential use of stem cells to regenerate facial muscles. The story was also reported by *Dental Economics* and on the Web site of *Dental Town Magazine*.

The New York State Dental Journal reported a National Geographic Society grant awarded to Dr. Timothy Bromage, Adjunct Professor of Basic Science & Craniofacial Biology and of Biomaterials & Biomimetics, to study tooth and bone development in African mountain gorillas, and a \$3.23 million NIH grant awarded to Dr. Racquel Z. LeGeros, Professor and Associate Chair of the Department of Biomaterials and Biomimetics and Linkow Professor of Implant Dentistry, to continue her osteoporosis research of innovative compounds that will be safe, affordable, and effective for the prevention and reversal of bone loss caused by osteoporosis.

The New York State Dental Journal reported on NYUCD's outreach mission to the upstate New York town of Hudson, to provide critically needed dental care for underserved children.

Access quoted Ms. Su-Yan L. Barrow, Clinical Associate Professor of Dental Hygiene, and Ms. Winnie Furnari, Clinical Assistant Professor of Dental Hygiene, in an article about new oral hygiene products.

REDBOOK



POWERED BY NYU LANGONE MEDICAL CENTER

The New York Times

AGD Impact reported that the Susan G. Komen Breast Cancer Foundation awarded a \$600,000 grant to an NYUCD research team led by Dr. Joseph Guttenplan, Professor of Basic Science & Craniofacial Biology, to study whether nutrients and antioxidants found in broccoli, grapes, and other naturally occurring compounds can prevent breast cancer.

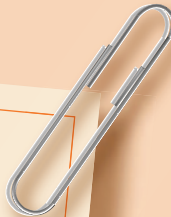
Redbook quoted Dr. Eugene Hittelman, Associate Professor of Epidemiology & Health Promotion, in an article about preventing anxiety in dental patients.



NEW YORK POST

Pharma Business Week quoted Dr. Frank Celenza, Jr., Clinical Associate Professor of Orthodontics, in a story about the effectiveness of using dental implants for orthodontic treatment. The story also appeared in *Dental Lab Products*.

The New York Times interviewed Dr. Ross Kerr, Clinical Associate Professor of Oral & Maxillofacial Pathology, Radiology & Medicine, for an article about oral cancer detection methods.



In Style magazine quoted Dr. Donna E. Shelley, Assistant Professor of Cariology & Comprehensive Care, in an article on quitting smoking.

Daily Mirror of Sri Lanka reported on a study led by Dr. Ananda Dasanayake, Professor of Epidemiology & Health Promotion and Director of the MS and Certificate Programs in Clinical Research, which found that pregnant women with periodontal disease are at an increased risk for developing gestational diabetes, even if they don't smoke or drink. The study results were also reported in India's national newspaper, *The Hindu*, and by the *Chicago Chronicle*. Dr. Dasanayake was also interviewed about the study for an article that will appear in an upcoming issue of the *Medical Observer* (Australia).

Health Central quoted Dr. Dasanayake in an article about treating periodontal disease during pregnancy.

The Huffington Post quoted Dr. Mark Wolff, Associate Dean for Predoctoral Clinical Education and Professor and Chair of the Department of Cariology and Comprehensive Care, in an article about fluoridated versus bottled water.



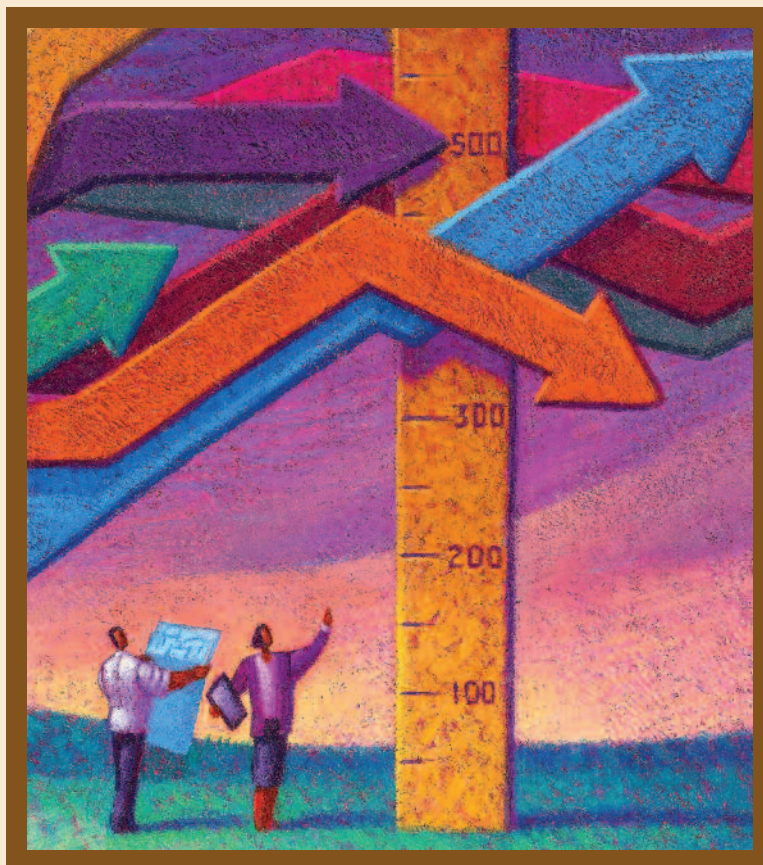
Taking Our Destiny Into Our Own Hands: Strategic Plan Offers Guideposts for NYUCD/NYUCN's Path Forward

"Institutional strategic plans," Dean Bertolami has noted, "are typically the product of an intense flurry of activity at the time of an impending institutional review or accreditation. They then repose undisturbed, occupying shelf space and collecting dust until a revision is called for five or ten years later."

Working collaboratively, the Colleges of Dentistry and Nursing have sought to avoid this situation by creating a streamlined strategic plan that really is used—consulted frequently, updated often, and encouraging rather than discouraging both opportunism and synthesis. Despite the relative brevity of the document that follows, the aim is ambitious: To provoke a transformational change in the culture of the institution and, by extension, in education, research, and practice. This Strategic Plan aims, in short, to set a general direction, not to dictate operational details that can quickly become outmoded or irrelevant.

In preparing this strategic plan, the Colleges of Dentistry and Nursing have sought to see ourselves

as if for the first time, asking questions like: "What business are we really in?" "What special role do we play in the nation's and the world's higher education network?" "What attractive and important set of services does our institution provide that people cannot obtain elsewhere better, faster,



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cheaper?" "What comparative advantages do we have over approximately similar places?" "What academic fields and academic services will be most needed by our region, by our country, and by the world in the next decade?" "With our traditions, endowment, location, and collection of faculty, students, staff, and administrators, what should our school be building toward?" "What should our college aspire to be 10 years from now?"

We recognize that enthusiasm for fulfilling our mission stems, in part, from being able—when we are at our best—to envisage what kind of institution we would like to become and being sufficiently captivated by that vision to work cooperatively toward achieving it through stated operational goals. That vision, in turn, will offer a framework for guiding decisions on an intermediate and long-term basis.

Central to our effort has been a principle best expressed as follows:

"People are the driving force in successfully accomplishing change...People will believe in a plan they understand; they will support new processes and structures more readily if they have an opportunity to participate in developing them...The key to successful change [is] more open, collaboratively developed strategies, structures, and processes. The corollary is that collaboratively developed structures and processes also tend to be the most effective and profitable."* With that principle in mind, the strategic planning process has sought not to invent our values, but rather to discover them and then to align our strategic planning efforts with those consensus values.

We want to be seen as a community entranced by the potential of human capacity and by its conscientious

development. We seek to be a place for those whose particular needs, desires, and gifts have led them here with the dream of improving themselves and others. The NYU College of Dentistry and the NYU College of Nursing seek to afford all sorts of people the opportunity to fulfill their aspirations as they pertain to the general and oral health

sciences. At one extreme, this dream may be as simple as a parent bringing a child to NYU seeking a beautiful smile to enhance self-esteem and improve acceptance

among peers. At the other extreme, it encompasses providing the most highly sophisticated educational programs for people seeking advanced postgraduate education in the dental and nursing specialties and the biological sciences.

It further encompasses the aspirations of college students whose career ambitions are to become dentists, nurses, or dental hygienists; individuals seeking master's and doctoral level education in the biological, biobehavioral, and biomaterials sciences; people who aspire to become research scientists whose discoveries will be a public benefaction; academically oriented individuals aiming to become university professors and administrators; faculty members seeking career advancement and a platform for contributing meaningfully to scholarship in their fields; alumni and other practitioners in the community who come to NYU for continual advancement in their knowledge and skills; and members of the public who will identify the college as a worthy beneficiary of their philanthropy.

The NYUCD/NYUCN strategic plan that is the result of this process is built on five pillars, which are designed to help us sketch out our future. They are not ends in themselves; rather, they are guideposts to help us discover what we really care about and are willing to commit ourselves to achieve. They are outlined below.

*Sandra Suran, *The Journal of Corporate Accounting and Finance*; Jan/Feb 2003; 14, 2, page 31.

FACILITATING INTERPERSONAL RELATIONSHIPS AND MENTORSHIP

The Colleges are committed to the proposition that everyone needs to *have* a mentor and that everyone needs to *be* a mentor. This commitment requires that we place a high value on building and maintaining respectful, productive, supportive, collegial, nurturing relationships, interactions, and collaborations among the members of our community, including students, alumni, faculty, staff, administrators, and patients. In so doing, we will create a synergistic effect that will maximize the quality of education, research, patient care, and community service that we are able to offer. In support of these objectives, we will develop a framework based on data from a “climate survey” of our community that will enable us to:

- Institute programs to improve avenues of communication and dialogue among all members of our community
- Enhance cultural competence and sensitivity and a recognition of the benefits of diversity
- Develop a mentoring program for all
- Repurpose activities to maximize team building
- Create orientation and training programs for new members of our community
- Establish a leadership development program.


FOSTERING AND MAINTAINING AN ENVIRONMENT FOR EXCELLENCE

While the Colleges of Dentistry and Nursing have made great strides in recent years, we must recognize that infrastructure needs are ongoing.


Unless we provide for this need, our ability to achieve true excellence will be compromised.

To enable the Colleges to continue to attract the best students, faculty, administrators, and staff; create outstanding educational programs; become increasingly competitive for the national pool of research dollars; and impact health care locally, nationally, and internationally, the Colleges must apportion current and newly created assets to:

- Create additional new educational and research facilities and continue refurbishing existing facilities
- Invest in and utilize technologies to enhance education, research, patient care, and management systems
- Plan comprehensively to more efficiently and effectively utilize resources to match institutional priorities
- Eliminate redundancies in programs and inefficiencies in organizational structure and systems
- Develop and implement plans for ecologic sustainability.



The NYU College of Dentistry and the NYU College of Nursing seek to afford all sorts of people the opportunity to fulfill their aspirations as they pertain to the general and oral health sciences. At one extreme, this dream may be as simple as a parent bringing a child to NYU seeking a beautiful smile to enhance self-esteem and improve acceptance among peers. At the other extreme, it encompasses providing the most highly sophisticated educational programs for people seeking advanced postgraduate education in the dental and nursing specialties and the biological sciences.



LEVERAGING PARTNERSHIPS AMONG DENTISTRY, NURSING, AND DENTAL HYGIENE

The new paradigm of a College of Nursing within a College of Dentistry is designed to expand the scope of and access to primary care by transforming traditional models of education, research, and healthcare delivery.

With the synergies that this partnership creates, new opportunities abound to address several of the most important challenges in health care in the United States and abroad, including the current practices of healthcare delivery, education, and research being conducted in “silos”; workforce shortages; access to evidence-based preventive health care; and health disparities.

The Colleges of Dentistry and Nursing have committed themselves to seizing these opportunities by leveraging expertise across disciplines and partnering with various funding agencies to create and assess new interdisciplinary research and practice models and to develop cross-disciplinary paradigms in the education of our students. Primary goals include:

- Creating innovative models for interdisciplinary research and practice that address health care disparities across a wide range of healthcare settings and diversified populations
- Refining existing educational programs at both colleges to incorporate the best practices of each discipline and provide opportunities for co-education and co-practice by dentists, nurses, dental hygienists, and other healthcare providers



- Communicating locally, nationally, and internationally to facilitate recognition of and appreciation for the underlying principles behind the nursing and dentistry partnership.

DEVELOPING MEN AND WOMEN OF SCIENCE

A foundational attribute for dentists

and nurses as members of learned professions must be sheer intellectual curiosity—a trait as important for the clinician as for the scientist. Indeed, the kind of curiosity that demands and that says, “I must know” and that drives all scientific inquiry is, at its root, identical to the kind of curiosity that underlies clinical practice at its best. To nurture this attribute, research must become part of the daily fabric of the dental education process and must be continually reinforced and utilized in classrooms, clinics, and associated activities, creating an environment that encourages both faculty and students to monitor and embrace the latest science.

Not every graduate has to become a scientist, in the sense of becoming a producer of new knowledge; but a learned profession does require that every graduate be able to think for herself or himself, and be an intelligent user of research, able to critique it, and comfortable with the structure and syntax of modern biomedical science. A priority for the Colleges of Dentistry and Nursing therefore is to educate all students to become “men and women of science,” or, to put it another way, “sophisticated consumers of research,” who continually seek and incorporate evidence-based philosophies into

their practices; are competent to understand and critically evaluate published research findings; and who appropriately utilize their findings to promote quality clinical outcomes. Goals include:

- Strengthening our vibrant research programs, including translational and clinical research
- Revising our didactic, pre-clinical, and clinical curricula to further promote critical thinking through interactive teaching and learning and to support evidence-based practice and lifelong learning skills
- Prioritizing evidence-based practice as the central component of our faculty development program
- Exposing as many students as possible to research through a high-quality hands-on experience.

PROMOTING GLOBAL ACTIVITY

In keeping with New York University's vision of becoming a "global network university" with partnerships, joint programs, and campuses worldwide, NYUCD/NYUCN will build upon the strategic advantages we have already achieved as a result of more than 20 years as a recognized innovator in healthcare education, research, and dissemination of new information at the global level.

The Colleges currently impact global health through a wide range of activities, including advanced education programs for international dentists; outreach programs designed to provide students the opportunity to practice their clinical skills while providing much-needed health care—

including nursing care—to underserved populations around the world; the creation of a sustainability program; study abroad opportunities for nursing students; and the opportunity to earn an MS degree in Oral/Dental Public Health, as part of a unique, all-University Master's Program in Global Public Health.

To take our commitment to improved global health to the next level, we will:

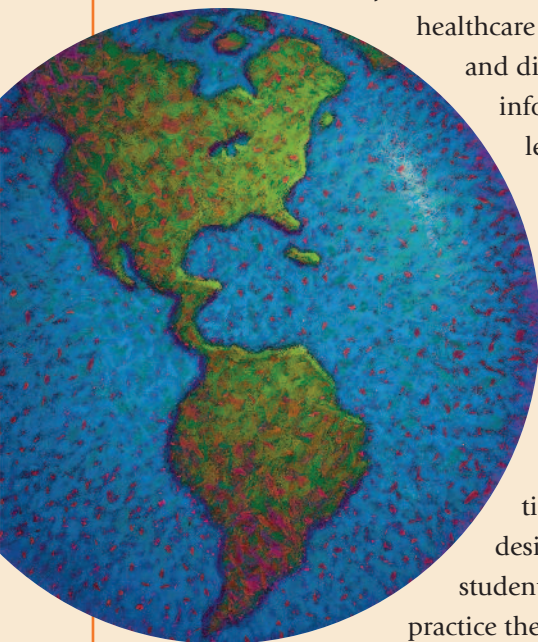
- Create and assess "mutual learning" models for best practices in underserved areas
- Educate regional providers to improve the health of their communities
- Partner with international academies and government agencies to assess and improve healthcare policies, education, and research
- Educate international scholars who will return to their home countries to teach as well as to practice.

In addition, in order to prepare our students to meet the challenges of a changing demographic, the Colleges will:

- Evaluate and, where appropriate, strengthen the teaching and integration of cultural competency into the Colleges' curricular offerings and patient care activities
- Provide faculty development programs in cultural competency
- Create opportunities for our students and faculty and other partners to study and engage in clinical activities abroad.

GOING FORWARD

Strategic planning cannot foretell the future and what issues will arise. As circumstances warrant, these themes may be further revised and extended. For now, they provide a starting point for a campus-wide engagement in shaping that future.



NYU Academy of Health Educators to Be Established

Dean Bertolami has announced that plans are underway to create the NYU Academy of Health Educators, which will bring together the Colleges of Dentistry and Nursing, the School of Medicine, the College of Arts and Science, and the Wagner School of Public Service to focus on fostering and recognizing excellence in education, mentoring faculty, supporting education-based research, and developing educational protocols for assessing teaching effectiveness and innovation in teaching and learning. The concept for the NYU Academy of Health Educators derives from models created by the Harvard Medical School and the University of California, San Francisco (UCSF), School of Medicine.

"Although excellence in teaching is indisputably central to the mission of educating tomorrow's healthcare providers across disciplines, it is often undervalued and undersupported," explained Dean Bertolami. "The decision to create the NYU Academy of Health Educators aims to rectify this situation by highlighting the important role of faculty in teaching and mentoring in addition to their roles in clinical care and research."

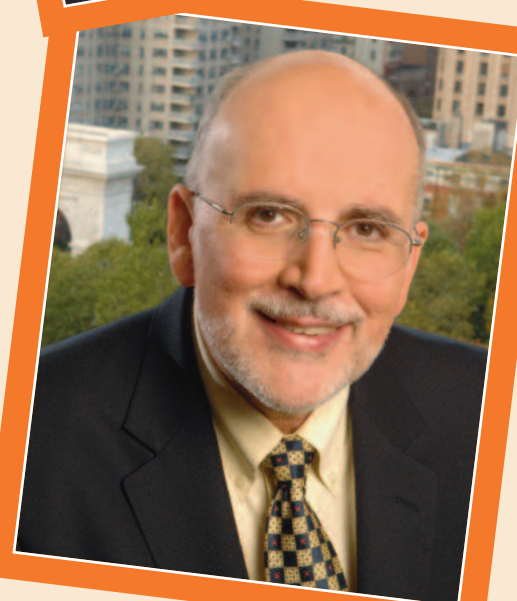
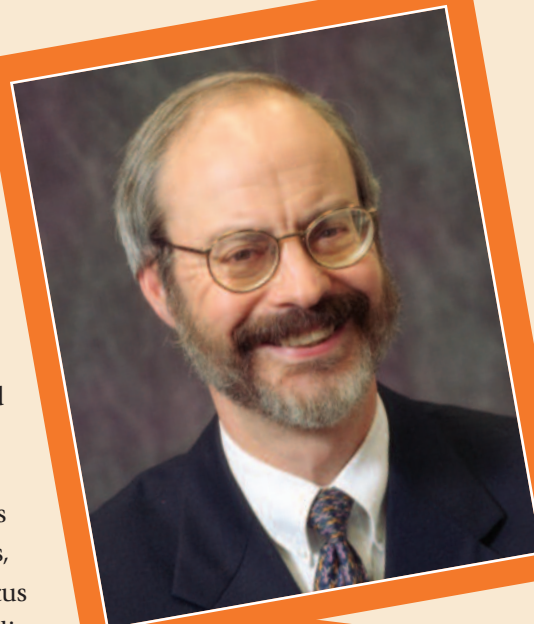
"With its focus on championing the central role of teachers in facilitating students' learning, helping faculty to become better teachers, fostering innovation in teaching, conducting research, and creating an environment that enhances the status of health professions educators, the Academy will function as a unique think tank in interdisciplinary health professions education, one that will redefine our understanding of health professions educators."

"Importantly, because NYU is so well positioned to capitalize on synergies among health professions education schools, the Academy's focus will be interdisciplinary and interprofessional in nature and will report directly to Senior Vice President for Health, Dr. Robert Berne, who, along with NYU Executive Vice President Michael C. Alfano, has helped to guide the vision of the Academy. It is my expectation that membership in the Academy will come to be seen

as the gold standard for evaluating excellence in teaching."

Said Senior Vice President Berne: "Teaching excellence has always been a hallmark of NYU's academic programs in the health area, and the Academy will take a cross-disciplinary approach to advancing knowledge and expertise across the entire faculty. Issues related to technology, subject matter integration, and pedagogy are critical to teaching in all aspects of health."

Members of the Academy will be selected on the basis of a rigorous process designed to document direct teaching accomplishment; involvement in curriculum development and teaching and learning assessment models; advising and mentorship experience; educational scholarship; and educational administration and leadership.



Top: Dr. Robert Berne;
Bottom: Dr. Michael C. Alfano

NYU's Dental and Nursing Vans Deliver On-Site Health Services and Education to Brooklyn Youngsters

BROOKLYN BOROUGH PRESIDENT MARTY MARKOWITZ ON-HAND TO WELCOME THE "SISTER" VANS



Brooklyn Borough President Marty Markowitz (holding toothbrush and teddy bear) presided at the inaugural partnering of NYU's dental and nursing vans.

For the past eight years, the NYU College of Dentistry has provided comprehensive dental services for children in pre-K through the fifth grade at PS 73 in Brooklyn through its mobile dental care program, *Smiling Faces, Going Places*. On June 8, 2009, the NYU College of Nursing's *Feeling Good in Your Neighborhood* medical services van joined the *Smiling Faces, Going Places* van for the first time to expand access to primary healthcare services for Brooklyn youngsters.

"Our objective," said Dean Bertolami, is "to underscore the proposition that New York's youngsters deserve both the best general health care and the best oral health care. By bringing the two "sister" vans together, NYU is expressing its commitment to total health care for New York City youngsters."

Groups of children in pre-K through first grade came aboard the nursing van beginning at 9:30 a.m. to receive health promotion education. Each child also received a

free teddy bear. At the same time, groups of children in pre-K through fifth grade received dental care aboard the dental van, as well as a “goody bag” of dental care products. At 10 a.m., Brooklyn Borough President Marty Markowitz officially welcomed the “sister” vans to PS 73.

Brooklyn Borough President Markowitz said, “As someone who was chubby as a kid and has struggled with weight and health issues in my ‘maturer’ years (not to mention that my family’s dental history is a dentist’s dream!), I know that getting our children on the road to healthy lifestyles in their most formative years is critical in the battle against childhood obesity, diabetes, and other medical issues that affect Brooklynites at alarming rates. So bravo to the NYU College of Dentistry and the NYU College of Nursing for taking good health ‘on the road’ by providing dental and medical services that give students at PS 73 even more reasons to smile and live long and healthy lives!”



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Brooklyn Borough President Marty Markowitz



NYUCD STUDENTS JOIN ACTRESS JENNIE GARTH IN KICKING OFF SMILES ACROSS AMERICA PROGRAM

NYUCD students joined actress Jennie Garth from the popular TV show *90210* for the national kickoff of *Smiles Across America* (SAA) at PS 42, a New York City public school. The event was held to recognize major sponsorship from Trident® in support of SAA, which provides resources, technical assistance, and donated dental products to communities across the country that are expanding school dental services in response to high rates of tooth decay among children. The NYUCD students led oral hygiene demonstrations for the children.



Actress Jennie Garth (in green) with NYU dental students at the national kickoff of *Smiles Across America*.

Arizona and Louisiana Dental Schools Join NYUCD's Second Outreach to Alaska

A 15-member NYUCD outreach team returned to Alaska in May, to a remote region, Yukon Flats, located above the Arctic Circle. They were accompanied by faculty and students from Louisiana State University School of Dentistry and Arizona School of Dentistry & Oral Health (ASDOH). The joint mission to the villages of Venetie and Fort Yukon marked the first step in what is expected to become a major effort by many dental schools to improve access to care in Alaska, where the caries rate is two-and-a-half times higher than at any other location in the United States.

Dr. Stuart Hirsch, NYUCD's Associate Dean for International Affairs & Development, and the mission's clinical director, said that the dentists from Louisiana State and ASDOH were a great addition to the team, and he anticipates that they will lead follow-up missions. In the future, NYUCD will go to other areas in Alaska and will invite other interested dental schools to join them, thereby having the capability to deploy multiple teams to provide more care to more villages.

The team screened and treated 291 local adults and children, as well as 15 adults and children flown to Venetie from remote Arctic outposts. In addition to providing extractions, restorations, sealants, and fluoride varnishes for the children, they also trained a health aide in Venetie to apply the varnish and provided the aide and a dentist who travels to Fort Yukon weekly from Fairbanks with enough fluoride varnish so that they could reapply it every three months for a year.

"Early intervention is key to successful oral health for these children," said Dr. Peter Catapano, NYUCD Clinical Associate Professor of Pediatric Dentistry. "Children in these villages rarely get preventive care. Children, as well as adults, tend not to see a dentist until they are in great pain and the need is urgent. In fact, many children with extensive needs end up hospitalized in Anchorage. By reapplying the fluoride varnishes every three months, we hope to achieve a minimum 50 percent decrease in disease within one year among children in Yukon



villages." This preventive model was used in Kasigluk in the Yukon Delta in February 2008, when a local health aide was trained to reapply the varnish at regular three-month intervals. This model has since been implemented on NYUCD outreach missions to Hudson, New York; the Dominican Republic; Nicaragua; and Honduras.

The outreach team had originally planned to travel to Alaska in February, but when they arrived in Seattle to board a connecting flight to Fairbanks, they learned that all flights had been canceled because Mount Redoubt, a 9,000-foot volcano, was erupting.

The mission was sponsored by the Rasmuson Foundation, a private foundation dedicated to supporting well-managed, nonprofit organizations in Alaska, and by the Council of Athabascan Tribal Governments, a local Eskimo organization.

In addition to Dr. Hirsch and Dr. Catapano, the members of the outreach team from NYUCD included Ms. Jill B. Fernandez, Clinical Associate Professor of Pediatric Dentistry; Dr. Gayle Miranda, Clinical Assistant Professor of Oral & Maxillofacial Surgery; Ms. Rachel Hill, Program Administrator in the Office of International Affairs & Development; Ms. Amanda Meissner, Program Administrator in the Office of International Affairs & Development; Dr. Patrick So, Advanced Education Program in Pediatric Dentistry, '09; Dr. Trinh Pham, Advanced Education Program in Pediatric Dentistry, '09; Dr. Jaepil Kim, Advanced Education Program in Pediatric Dentistry, '10; Dr. My Tran, Advanced Education Program in Pediatric Dentistry, '10; and the following students from the DDS Class of 2010: Mr. Syed M. Fahd, Mr. Charles Leung, Mr. Michael W. Wahl, Ms. Sarah Saucerman, and Ms. Manmeet Hothi.

The members of the outreach team from ASDOH were Dr. Maureen Romer, Director of Special Care Dentistry, and Dr. Cassandra Jones, '09. Dr. David Treff, a resident in the Advanced Education Program in Pediatric Dentistry, '10, represented Louisiana State University School of Dentistry.



NYUCD Students Lead Fourth Annual Oral Cancer Awareness Walk



The fourth annual New York City Oral Cancer Awareness Walk, held on April 18, 2009, was organized by students from the NYUCD chapter of the Student National Dental Association (SNDA) and from other local chapters, and by NYU dental hygiene and nursing students, in partnership with the Harlem Hospital Center, the Greater Harlem Chamber of Commerce, NYU, Columbia University, and

Renaissance Health Care Network. Hundreds of participants came out to Marcus Garvey Park in Harlem to raise awareness of a disease that kills over 7,000 American men and women each year.

In addition to more than 700 walkers and runners, the event drew several prominent statewide politicians, including New York State Assembly Member, Herman (Denny) Farrell, and New York State Senator Bill Perkins, and featured musical performances by WBLS radio and a local gospel choir. Most importantly, the event raised nearly \$30,000 to help promote early detection and treatment of oral cancer.

Special thanks go to Dr. Ross Kerr, Associate Professor of Oral & Maxillofacial Pathology, Radiology & Medicine, who serves as the official advisor to the student organizers.



From left:
Dr. Gerald Deas,
NYS Assemblyman
Herman "Denny"
Farrell, Dr. Ross Kerr,
Assistant Dean Elyse
Bloom, NYS Senator Bill
Perkins



Student Peer Review Board Goes Live

NYUCD recently introduced a new approach to an important aspect of College governance, one that relies exclusively on student leadership to promote academic integrity, champion ethical behavior, and adjudicate allegations of academic dishonesty. The one-year pilot program, known as the Peer Review Board, or PRB, replaces the former faculty-led Committee on Ethics and Professionalism for DDS students.



"Perhaps no profession is more responsible for self-monitoring than dentistry, since the majority of dentists work in solo practices with no one looking over their shoulder to make sure that they are doing the right thing," said Dean Bertolami. "That's why it is so important for dental students to help one another understand the value of academic integrity, and how this translates into the ethical standards they will carry with them into practice."

As campuses across the country report a virtual epidemic of explicit cheating, a national effort has formed to help institutions of higher learning combat the potential of this phenomenon to do lasting damage to American education and the larger society. At the core of this effort is a new "honor code" movement that values peer orientation in promoting honesty, ethics, and integrity. Indeed, while all institutions have incidences of cheating, students in institutions that have PRBs are more likely to report them than students in non-PRB institutions.

Added Dean Bertolami, "The message is clear: When students are empowered to set and enforce high academic integrity standards, they tend to do so."

"Perhaps no profession is more responsible for self-monitoring than dentistry, since the majority of dentists work in solo practices with no one looking over their shoulder to make sure that they are doing the right thing," said Dean Bertolami. "That's why it is so important for dental students to help one another understand the value of academic integrity, and how this translates into the ethical standards they will carry with them into practice."

Inaugural Colloquium Considers “How Can We Build Sustainable Access to Dental Care for Those in Need?”



Dr. John Howe III, President & CEO, Project Hope, with Dean Bertolami

A colloquium hosted in April by Dean Bertolami brought together major stakeholders in dental education, organized dentistry, and the corporate sector, along with selected NYU officials, to address the following issue: In a difficult economic climate, how can we build sustainable access to dental care for those in need?

Dr. John Howe, III, Executive Director of Project HOPE, described his organization's method of enlisting medical volunteers to address access-to-care issues in many parts of the world, emphasizing that people want to volunteer and that their actions broaden the scope of what is possible.

Dr. Stuart Hirsch, Associate Dean for International Programs & Development at NYUCD, presented a video of the College's outreach activity in Hudson, New York, the goal of which was to provide sustainable oral health care to children in nine Head Start Programs in Hudson. To view the video, go to:

<http://www.nyu.edu/media.production/file.sharing/dentalhudson/>

Spurred by these presentations, participants put forth ideas focused on developing a model to increase access to oral health care by recruiting practicing dentists as volunteers to join NYUCD's existing outreach infrastructure, thereby helping to expand the amount of care that can be provided during outreach missions to medically underserved areas both in the United States and abroad.

The plan is to use the NYU College of Dentistry as an institutional base to manage the logistics and site arrangements so that volunteer dentists will need to do little more than show up and practice dentistry along with our faculty and students. The plan would seek collaboration with organized dentistry and would eventually expand to include other



Mr. Stanley Bergman, Dean Terry Fulmer, and Mr. Ian Cook.

schools of dentistry as well. While the medical world has an institutional base centered on the hospital, dentistry has little institutional infrastructure apart from dental schools. In light of this, it seems that schools can do more to work with the corporate sector and with organized dentistry to create an institutional infrastructure for dentists who want to participate in volunteer outreach activities.

The consensus of the participants was that this project is realistic, as it supports the mandate of New York University to be a “private institution in the public service”; it is actionable, as we have a tested protocol in place for delivering outreach and a large alumni population from which to recruit volunteers; and it is practical, because once start-up funds are in place, the model can be made financially viable by having a portion of the services covered by Medicaid funds. It is also a potentially replicable model, since NYUCD intends to share the information gained, starting one year after its inception, with the larger dental community through presentations and publications.

THE PATH FORWARD

Dr. Hirsch is overseeing the program, which will begin with invitations to 10 practicing dentists to take part in a two-week Hudson outreach project in fall 2009 to treat both adults and children. He will subsequently incorporate the volunteers into the three-month follow-up maintenance visits designed to sustain the health of 1,000 school children offered care in Hudson. Data from the outreach will be collected and analyzed to document changes in the children’s oral health status, and the volunteers will be interviewed about their experiences.

NYUCD INAUGURAL COLLOQUIUM PARTICIPANTS

Dr. Michael Alfano, *Executive Vice President, New York University*

Mr. Stanley Bergman, *Chairman & CEO, Henry Schein, Inc., NYU Acton Society*

Dr. Robert Berne, *Senior Vice President for Health, New York University*

Dr. Charles Bertolami, *Herman Robert Fox Dean, NYU College of Dentistry*

Ms. Elyse Bloom, *Assistant Dean for Public Affairs & Communications, NYU College of Dentistry*

Dr. Jo Ivey Boufford, *President, The New York Academy of Medicine*

Dr. Lawrence Brecht, *Alumnus*

Mr. Ian Cook, *President & CEO, Colgate-Palmolive Company*

Dr. Gerald Curatola, *Alumnus, NYU Acton Society*

Dr. Cosmo DeSteno, *Associate Dean for Clinical Affairs, NYU College of Dentistry*

Dr. Peter DuBois, *Executive Director, California Dental Association*

Dr. Mark Feldman, *Interim Executive Director, New York State Dental Association*

Dr. Jonathan Ferencz, *Alumnus, NYUCD Dean’s Advisory Council, NYU Acton Society*

Dr. Terry Fulmer, *Dean, NYU College of Nursing*

Dr. Stuart Hirsch, *Associate Dean for International Programs & Development, NYU College of Dentistry*

Dr. John Howe, III, *President & CEO, Project HOPE*

Dr. Howard Lieb, *Faculty (Part-time), NYU College of Dentistry*

Dr. Jan Linhart, *Alumnus, NYU Acton Society*

Dr. Amr Moursi, *Chairman of Pediatric Dentistry, NYU College of Dentistry*

Dr. Michael O’Connor, *Executive Associate Dean for Finance & Administration, NYU College of Dentistry*

Dr. Larry Rosenthal, *Alumnus, NYUCD Dean’s Advisory Council, NYU Acton Society*

Dr. Gary Ruth, *NYUCD Dean’s Advisory Council, NYU Acton Society*

Dr. David Sirois, *Associate Dean for Graduate Programs, NYU College of Dentistry*

Dr. Andrew Spielman, *Associate Dean for Academic Affairs, NYU College of Dentistry*

Ms. Rita Startup, *Assistant Dean for Development & Alumni Affairs, NYU College of Dentistry*

Dr. Dennis Tarnow, *Prof. & Chair, Ashman Department of Periodontology & Implant Dentistry; NYUCD Dean’s Advisory Council, NYU Acton Society, Alumnus*

Dr. Louis Terracio, *Associate Dean for Research, NYU College of Dentistry*

Dr. George Thibault, *President, Josiah Macy, Jr. Foundation*

Dr. Richard Vogel, *Executive Vice Dean, NYU College of Dentistry*

Mr. Don Waters, *President & CEO, Brasseler USA, NYU Acton Society*

Ms. Cheryl Westphal, *Assistant Dean for Allied Health Programs, NYU College of Dentistry*

Mr. Bret Wise, *Chairman & CEO, Dentsply International, Inc.*

Dr. Mark Wolff, *Associate Dean for Predoctoral Clinical Education, NYU College of Dentistry, Professor & Chair of Cariology & Comprehensive Care*

NYUCD and ABC7 Host “Spring Smiles” for New Yorkers

From April 15 through April 17, 2009, the NYU College of Dentistry and ABC7 teamed up, once again, to offer free dental screenings for New Yorkers of all ages.

As in previous years, NYUCD’s long-time media partner, ABC7, promoted the screenings vigorously on the air, with ABC7 meteorologist Lee Goldberg serving as the spokesperson for the event. Thanks in large part to ABC7’s public service announcements and oral health stories featuring NYUCD faculty experts, nearly 1,300 New Yorkers took advantage of the free screenings, which included oral health screenings for adults and children, oral cancer screenings for adults, and free dental IDs, dental sealants, and custom-made mouth guards for youngsters, in addition to other special services.

“The success of the 2009 screenings underscores the critical need for expanded access to health care for all New Yorkers,” said Dean Bertolami. “NYUCD is extremely proud to partner with ABC7 to offer as much care as possible to our fellow New Yorkers.”



TECHNOLOGY BRIEFS

Distance Learners Respond with a Click

Last December, when Dr. Mark Wolff asked students in a seminar at NYUCD on caries risk assessment, diagnosis, and treatment to respond to a multiple-choice question about tooth remineralization, the 10 NYU dental hygiene students in the room with him at NYU's Rosenthal Institute for Aesthetic Dentistry weren't the only ones participating.

Within seconds, Dr. Wolff also received responses from 35 dental hygiene students enrolled at the New York City College of Technology, who were in a classroom on their Brooklyn campus, three miles away from the Rosenthal Institute, where Dr. Wolff, Professor and Chair of the Department of Cariology & Comprehensive Care and Associate Dean for Predoctoral Clinical Education, was presenting the seminar.

The NYUCD and City Tech students both used a palm-sized device known as an audience-response clicker to transmit their answers to a computer, which tabulated them and flashed the final tallies on television monitors located in the Rosenthal Institute. A videoconferencing system simultaneously displayed the tallies on monitors in the Brooklyn classroom alongside images of Dr. Wolff. Students in both locations also were able to watch one another on the monitors, giving both groups the sense that they were on the same playing field.

"This was an opportunity to explore how technology can be used collaboratively with another college for



curriculum enhancement," said Dr. Elise Eisenberg, NYUCD's Director of Informatics & Digital Support Services. Added Ms. Lorilei Kirby, an NYUCD Clinical Assistant Professor of Dental Hygiene who developed the six-session seminar in partnership with Dr. Wolff: "City Tech was a natural partner because it has videoconferencing capabilities and because it shares NYUCD's goal of teaching dental hygiene students about cariology from a dentist's perspective."

The seminar was open to fourth-year students from NYUCD's bachelor's degree program in dental hygiene, as well as to second-year students from NYUCD's and City Tech's associate degree programs in dental hygiene. Dr. Wolff said he hoped to present the seminar again in fall 2009.

City Tech was a natural partner because it has videoconferencing capabilities and because it shares NYUCD's goal of teaching dental hygiene students about cariology from a dentist's perspective.

Celebrating OUR COMMUNITY

GRADUATION '09: THOUSANDS CHEER CANDIDATES' AND HONOREES' ACHIEVEMENTS



On May 26, 2009, with nearly 3,000 people in attendance at the WaMu Theater at Madison Square Garden, the NYUCD Class of 2009—including 347 candidates for the degree of Doctor of Dental Surgery, as well as candidates for Advanced Education certificates, certificates in clinical research, Master of Science degrees in Clinical Research, Bachelor of Science degrees in Dental Hygiene, and Associate in Applied Science degrees in Dental Hygiene—was lauded enthusiastically by joyous families, teachers, and friends.

"This is your moment," said Dean Bertolami. "Enjoy it to the fullest."

In addition to the conferral of degrees, highlights of the graduation ceremony included presentation of the Dr. Harry Strusser Memorial Award for distinguished contributions to improved public health to Class of 1964 graduates

Dr. Martin Kane and Dr. Stephen J. Cuchel, healthcare advocates, entrepreneurs, and philanthropists; and to Ms. Colleen Zenk Pinter, actor, humanitarian, and oral cancer survivor.

In accepting their award, Drs. Kane and Cuchel spoke of the immense gratification to be derived from practicing in a socially responsible way. "To be the health profession we want it to be," they said, "dentistry must provide care for everyone in our society."

Ms. Zenk Pinter, a two-time Emmy Award nominee for her role since 1978 as Barbara Ryan on CBS's *As the World Turns*, has become a very visible spokesperson for the early detection of oral cancer since her diagnosis in 2007, even convincing her producers to write her cancer into her character's storyline. Ms. Zenk Pinter challenged the graduates to be vigilant in examining patients for oral cancer, so that the tragedy that befell her would not happen to others.



Top: Strusser Award recipient Colleen Zenk Pinter
Middle: Strusser Award recipients Dr. Stephen J. Cuchel and Dr. Martin Kane with Dean Bertolami
Bottom, far left: Secretary of State Hillary Rodham Clinton was the keynote speaker at NYU's 2009 Commencement Exercises held in Yankee Stadium.

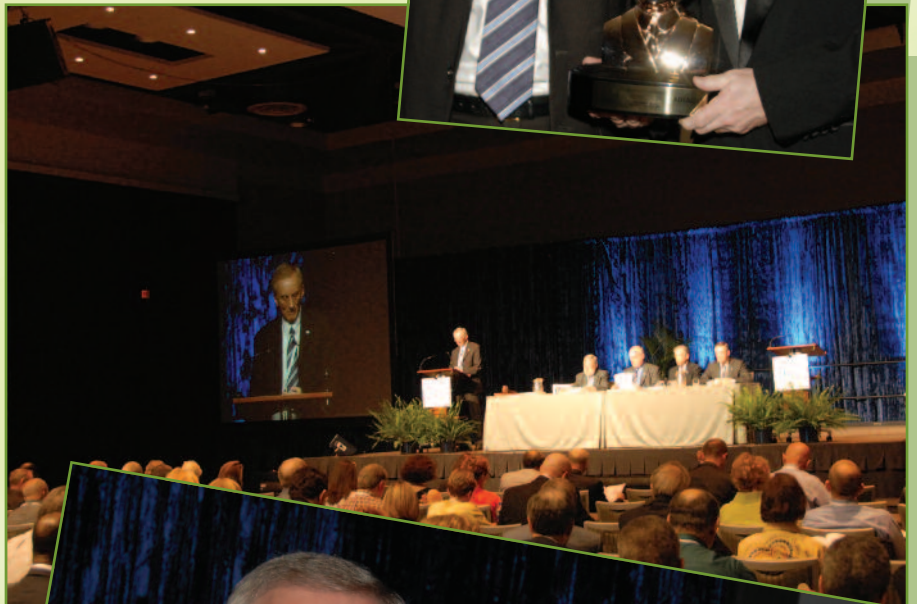
ADEA CELEBRATES DEAN BERTOLAMI'S PRESIDENCY

After a year as President of the American Dental Education Association (ADEA), during which he commuted regularly between New York and Washington, DC, to advocate for dental education priorities, including innovative collaborations with other health sciences education programs and sharing of resources, increased diversity and access to care for underserved populations, higher standards of professionalism and ethics, and increased attention to workforce issues, Dean Charles N. Bertolami enjoyed the accolades of his colleagues, family, and friends at the 2009 annual session in Phoenix, where he assumed the office of Immediate Past-President of ADEA.

A highlight of the opening plenary session was a performance by comedian and impressionist Frank Caliendo, who happens to be Dean Bertolami's nephew. After regaling the audience with his impressions of George W. Bush, Bill Clinton, Arnold Schwarzenegger, and Jay Leno, he did his impression of his "Uncle Charlie," whom he referred to fondly as "probably my fourth or fifth favorite relative of my wife."

All of us at NYUCD are extremely proud of Dean Bertolami and congratulate him on a year of outstanding service as President of ADEA and wish him all the best as he continues to serve the cause of organized dental education as Immediate Past-President of ADEA.

Top: Dean Bertolami with Frederick G. Mann, VP for Communications, Robert Wood Johnson Foundation, who accepted the Gies Award for Outstanding Innovation - Private or Public Partner - on behalf of RWJF.
Middle: Addressing the opening session
Bottom: Dean Bertolami with his nephew, the comedian Frank Caliendo



SERVICE RECOGNITION AWARDS PRESENTED

One hundred and twenty-eight full- and part-time faculty members, administrators, and staff were honored recently at the 2009 annual Service Recognition Ceremony for their contributions to the Colleges of Dentistry and Nursing over an extended period of time.

"All of these people have displayed exemplary dedication and play an important role in NYUCD/NYUCN's continued success," said Dean Bertolami. "We are tremendously grateful to them all and salute their commitment to the Colleges of Dentistry and Nursing." The names of recipients of Service Recognition Awards appear below.



50-Year Service Award

Prosthodontics & Basic Science & Craniofacial Biology
Dr. Sidney I. Silverman

45-Year Service Award

Endodontics
Dr. Frederick H. Kahn

Pediatric Dentistry
Dr. Stephen J. Moss

40-Year Service Award

Clinical Affairs
Ms. Juliette Charles

Orthodontics
Mr. Henri Gaudin

Prosthodontics
Dr. Harold Litvak

35-Year Service Award

Basic Science & Craniofacial Biology
Dr. Joseph Guttenplan
Dr. Gene C. Lavers
Dr. Harvey Wishe

Office of the Dean
Ms. Mary Ann Dennis

Prosthodontics
Dr. Juliet Y. Kafka-Bergen
Dr. Robert E. Wolfe

Restorative Support Unit
Mr. Arnold J. Schindel

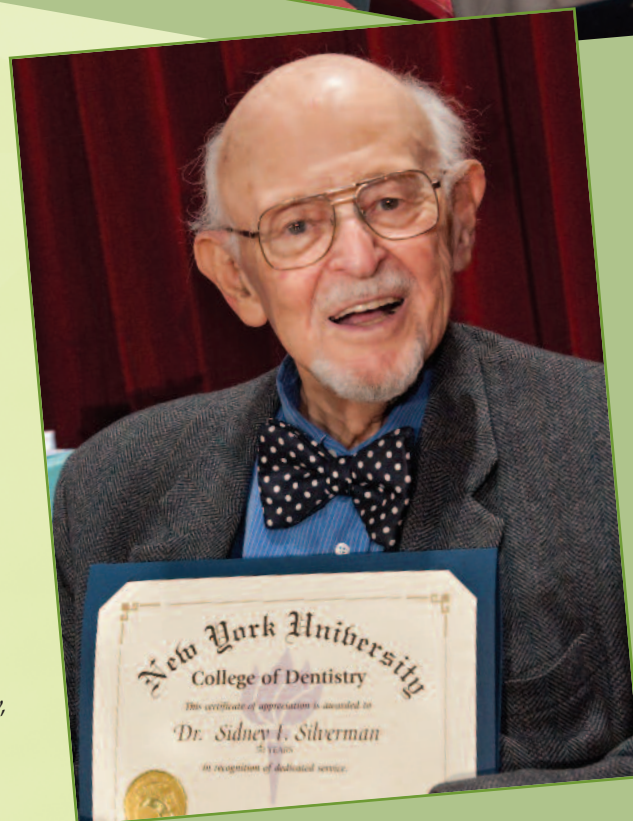
30-Year Service Award
Cariology & Comprehensive Care
Dr. Murray F. Rose

Continuing Dental Education
Ms. Mary Iemma

Oral & Maxillofacial Pathology, Radiology & Medicine
Dr. Jacob Goldstein

Periodontology & Implant Dentistry
Dr. Parviz M. Edalat

Restorative Support Unit
Mr. Ralph S. Simeron





25-Year Service Award

Cariology & Comprehensive Care

Dr. Harold S. Ballard
Dr. Bapanaiah Penugonda

Clinical Affairs

Ms. Deborah Judith Morris

Oral & Maxillofacial Pathology, Radiology & Medicine

Dr. Anthony T. Vernillo

Periodontology & Implant Dentistry

Dr. Kambiz Afshar-Mohajer

Prosthodontics

Dr. Jay Steinberg
Dr. Farhad Vahidi
Dr. Ira D. Zinner

Student Affairs & Admissions

Dr. Eugenia E. Mejia

20-Year Service Award

Academic Affairs

Dr. Andrew I. Spielman

Cariology & Comprehensive Care

Dr. Robert A. Danti
Dr. Benjamin Godder
Dr. James T. LoPresti
Ms. Patricia Montalbano
Dr. Irving Shapiro

Clinic Operations

Ms. Angela L. Buck
Ms. Ruthie Davis
Ms. Linda Frierson
Ms. Sheila Houston
Ms. Glayds E. Molina
Ms. Veronica Nesbitt
Ms. Olga Tessa A. Young Reddock

Clinical Affairs

Ms. Ginette Lamarre
Ms. Sonia Medrano

Continuing Dental Education

Ms. Maria Joy Ang-Angco Celeste

Endodontics

Dr. Gregory Browne
Dr. Arthur Kubikian
Dr. Kenneth Liao

Financial Management & Business Operations

Mr. Tykiesen T. Moore

Health Services & Compliance

Ms. Regina Pena

Oral & Maxillofacial Pathology, Radiology & Medicine

Ms. Linda Baez
Ms. Elsie Williams
Dr. Michael L. Gelb

Oral & Maxillofacial Surgery

Dr. Saul Bahn

Orthodontics

Dr. Mabel K. Kwok

Pediatric Dentistry

Dr. Fred P. Appelbaum
Dr. Majid Navab
Dr. David E. Tarrab

Periodontology & Implant Dentistry

Dr. Igor Gerzon
Dr. Ralph Kaslick
Ms. Merna L. Raymond
Dr. Lloyd M. Sara
Dr. Harold I. Sussman

Prosthodontics

Dr. Lawrence R. Brecht
Dr. Esther Kuyinu

15-Year Service Award

Basic Science & Craniofacial Biology

Dr. Jane A. McCutcheon

Cariology & Comprehensive Care

Dr. Myles S. Held
Dr. Arnold Ray
Dr. Martin J. Schwartz
Dr. Herbert S. Westrich

Clinic Operations

Mr. Ivan Cornejo
Ms. Marcia De La Rosa
Mr. Edward D. Duarte
Ms. Mary Lum

Dental Hygiene
Ms. Lisa Stefanou

Endodontics
Dr. Les Muldorf

International Recruitment & Admissions
Mr. John Nissen

Orthodontics
Dr. Ana M. Munoz

Pediatric Dentistry
Ms. Johanna Rosman

Periodontology & Implant Dentistry
Dr. Tara A. Bogart
Dr. Paula N. Small
Dr. Stephen S. Wallace
Dr. Julie K. Yip

10-Year Service Award
Basic Science & Craniofacial Biology
Dr. Deepak Saxena

Cariology & Comprehensive Care
Dr. Charles A. Cacioppo
Dr. Amy David
Dr. Arthur Dawson
Dr. Michael V. Gregorio
Dr. Alexander Heifitz
Dr. Kirk A. Kalogiannis
Dr. Steve Wong

Central Sterilization
Ms. Teresa Echavarria
Ms. Suzette B. Muwwakil
Ms. Stacy Roberts

Clinic Operations
Ms. Evelyn Feliz
Ms. Thelma Ferez
Mr. Orlando Vega

Dental Hygiene
Ms. Marilyn Cortell
Ms. Luisa Dattoma
Ms. Lisa R. Zuluaga

Endodontics
Dr. Maynard Goldberg
Dr. Sathyaprasad P. Kallur

Nursing MA Program
Ms. Diana Henderson

Nursing Sponsored Research
Ms. Juliet P. Weir

Office of Administration
Ms. Susan Abraham

Oral & Maxillofacial Pathology, Radiology & Medicine
Dr. Jeffrey Gurian
Dr. Barry K. Rozenberg
Dr. Stanley Turetzky
Dr. William C. Ullman

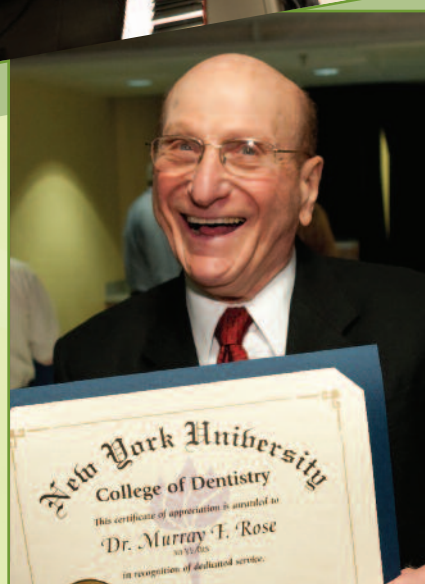
Oral & Maxillofacial Surgery
Dr. Thomas P. Williams

Orthodontics
Dr. H. Peter Sherman
Ms. Jacqueline Diaz
Mr. Kevin Haskell
Ms. Sandra Imbert
Ms. Magaly Perez

Periodontology & Implant Dentistry
Mr. Kirkor Cinarli
Dr. Allen N. Heller
Dr. Irving Horowitz
Dr. Jaklin Morovati
Dr. Louis F. Rose
Dr. Jeffrey A. Scolnick
Dr. Stuart Segelnick

Prosthodontics
Mr. William M. Baum
Mr. Paul Eliason
Dr. Stephen I. Hudis
Dr. Joseph D. Randazzo
Dr. Benedict M. Rich
Dr. Lester Rosenthal

Student Affairs & Admissions
Ms. Patricia R. Dejohn
Dr. Anthony Palatta



DR. ANDREW I. SPIELMAN AWARDED UNIVERSITY'S HIGHEST TEACHING HONOR

Dr. Andrew I. Spielman, Professor of Basic Science and Craniofacial Biology and Associate Dean for Academic Affairs, has been awarded the prestigious NYU Distinguished Teaching Award, which recognizes that, along with research, exceptional teaching, both within and outside the classroom, is among NYU's institutional priorities. Dr. Spielman was one of only six NYU faculty members to receive the award.

Dr. Spielman is nationally known for his expertise in molecular mechanisms of the olfactory (smell) and gustatory (taste) senses. He has published extensively in the area of taste, including a textbook on the cell biology of taste and smell, and has received grants from NIH, NSF, and private foundations and industry. He is Past-President of the American Association of Oral Biologists and, more recently, Chair of the Section on Educational Research/Curriculum Development of the American Dental Education Association (ADEA). Despite his extensive administrative duties, he continues

to teach dental students in biochemistry, cell biology, oral biology, pathology, diagnosis, and, more recently, "The History of Dentistry and Medicine." Starting in fall 2009, he will also teach that course at the NYU College of Arts and Science as part of the freshman Honors Seminars series.

In his letter recommending Dr. Spielman for this honor, Dean Bertolami cited "the extensiveness and sincerity of Dr. Spielman's teaching commitment; his genuine passion for his subject area, including his ability to communicate it to students with force and logic and to awaken in them genuine interest in the field through the sheer force of his charisma and infectious enthusiasm; his central role in introducing instructional technology at the College—most particularly the computer-based VitalBook, an electronic delivery system for all textbooks; and his role in developing the NYU Academy of Health Educators" (see related article, page 79).

NYUCD congratulates Dr. Spielman on receiving this

wonderful, well-deserved award in tribute to a master of the art of teaching.



DR. EUGENIA MEJIA AWARDED NYU'S HIGHEST ADMINISTRATIVE HONOR

Dr. Eugenia Mejia, NYUCD's Director of Admissions, has been awarded the 2008–2009 Distinguished Administrator Award presented by New York University in recognition of outstanding achievement as an administrator and dedicated service to students, faculty, and staff. This significant award is a special acknowledgement of the value that NYU places on administrative excellence and a way to formally honor the significant contributions of administrative and professional staff. Dr. Mejia, formerly Director of the Collegiate Science Technology Entry Program at the NYU Steinhardt School of Culture, Education, and Human Development, holds a PhD in counseling psychology from the Steinhardt School.

Noting that only six individuals from throughout the University received this distinction, Dean Bertolami said: "Eugenia has been a tremendous asset to NYUCD, where she attracts and selects candidates for admission. Since her arrival at the College in 2006, Eugenia's scope has increased from 3,908 applications to include more than 4,657 applications for admission. The incoming class statistics also are significantly higher than in previous years, adding to the quality and diversity of the applicants and allowing NYUCD to be more selective in its candidates for admission as a direct result of Eugenia's recruitment efforts. Her work often involves interaction with students, parents, college and high school faculty, administrators, corporate personnel, and community groups. As a supervisor, Eugenia promotes both quality and efficiency and encourages staff and students to work both hard and smart. She rewards hard work and success and also provides opportunities to those who may not have realized their full potential.

"Throughout her career, Eugenia has been a role



Dr. Eugenia Mejia

model for many aspiring professionals, and has taken the time to guide and mentor numerous students. I can think of few individuals who give as much of themselves to ensure that students have a multitude of options open to them. She has increased access for many members of historically underrepresented communities and exemplifies the best of what we at NYUCD try to promote. I look forward to adding her name to the stainless steel tablet in our lobby bearing the names of University Distinguished Teachers and Administrators from NYUCD."

“Throughout her career, Eugenia has been a role model for many aspiring professionals, and has taken the time to guide and mentor numerous students...”

DR. DIANNE REKOW APPOINTED PROVOST OF THE POLYTECHNIC INSTITUTE OF NYU

Dr. Dianne Rekow, formerly Professor and Chair of the Department of Basic Science & Craniofacial Biology, has been appointed to lead the Polytechnic Institute of NYU as Provost of NYU-Poly, effective March 11, 2009.

In her new role, Dr. Rekow is working to recruit exceptional new faculty to Poly, enhance research and expand research funding, increase technology commercialization, transform the curriculum to meet the demands of the 21st century, and build Poly's success as an institute of technology in i2e: invention, innovation, and entrepreneurship. She also serves as Senior Vice Provost of Engineering and Technology for NYU.

NYUCD

extends added congratulations to Dr. Rekow on her recent election as

Vice President of the International Association for Dental Research (IADR), which marks yet another example in a life of outstanding professional achievements.

NYU·poly



Dr. Dianne Rekow

MAISLEN AWARD PRESENTED TO DR. WALTER GURALNICK



The 2009 Maislen Award was presented in June to Dr. Walter Guralnick, Professor Emeritus of Oral and Maxillofacial Surgery, Harvard University, at a special ceremony that also honored two graduates of the Advanced Education Program in Oral and Maxillofacial Surgery, Dr. Peter Rosa and Dr. Petros Panagos. The Maislen Award recognizes individuals whose accomplishments have strengthened the foundation and influenced the future of oral and maxillofacial surgery.

Back row, from left: Dr. Robert Glickman, Professor and Chair of the Mecca Department of Oral & Maxillofacial Surgery; Dr. Vasiliki Karlis, Director, Advanced Education Program in Oral & Maxillofacial Surgery; Dr. Guralnick; Dean Bertolami. Front row, from left: Dr. Petros Panagos and Dr. Peter Rosa.

INAUGURAL WHITE COAT CEREMONY FOR DENTAL HYGIENE STUDENTS



NYUCD's tradition of welcoming dental students with a White Coat Ceremony expanded in January 2009, with the addition of a formal White Coat Ceremony dedicated exclusively to recognizing students in the AAS and BS in Dental Hygiene programs.

The ceremony featured welcoming remarks by Dean Bertolami and Professor Cheryl Westphal, Assistant Dean for Allied Health Programs and Director of the Dental Hygiene Program, as well as recitation of a Student Pledge affirming commitment to professionalism, humanism, integrity, and ethics, and, most dramatically, the donning of white coats by dental hygiene students for the first time.

"It is with great pride that we recognize our dental hygiene students," said Dean Bertolami, "who are poised to become tomorrow's leaders in dental hygiene."

"Offering dental hygiene students the opportunity to take the pledge is a way of demonstrating our very high expectations for them," said Professor Westphal. "Moreover, the presentation of white coats by faculty members is a symbolic way to convey that students can count on the faculty to help them uphold the high standards we have set for them."



DR. MAUREEN MCANDREW AWARDED ADEA/GIES EDUCATION FELLOWSHIP

The American Dental Education Association has selected Dr. Maureen McAndrew, Clinical Associate Professor of Cariology & Comprehensive Care, to receive the 2009 ADEA/William J. Gies Foundation Education Fellowship, which is designed to familiarize dental educators with a broad range of timely educational issues facing dental education.

"ADEA recognizes the importance of faculty development, and this fellowship was created in an effort to encourage faculty members' growth as educators and scholars," said Dean Charles N. Bertolami, Immediate Past-President of ADEA.

Dr. McAndrew will spend three months in Washington, DC, working with staff in the ADEA Center for Educational Policy and Research on issues such as faculty recruitment, development, and



retention; leadership development; teaching strategies; competencies and their

assessment; and accreditation and licensure. Her priorities include surveying dental schools about their implementation of teaching assistant and faculty/staff development programs.



Dr. Maureen McAndrew

“ADEA recognizes the importance of faculty development, and this fellowship was created in an effort to encourage faculty members' growth as educators and scholars.”

HOW TO MAKE A DENTAL STUDENT'S DAY— A PATIENT'S LETTER TO THE DEAN LAUDS “TRULY RARE KINDNESS AND COMPASSION”

Ms. Bernice Ravitz was anxious when she arrived at NYUCD in fall 2007 to explore treatment options for her two missing lower-right posterior teeth. Now, several years into her treatment, she is so pleased with her experience that she recently wrote a letter to Dean Bertolami lauding the care she received from Dr. Lee Ann Clark, Class of 2009.

“Lee Ann made sure she allayed all my fears and apprehensions,” Ms. Ravitz wrote. “She attended to my every dental need not only with an expertise that never ceases to amaze me, but with a kindness and compassion that I feel is truly rare.”

“Ms. Ravitz was interested in implants, but worried about having to get bone grafts, since she has diabetes and knew that diabetics often heal slowly from surgery,” recalls Dr. Clark, who was assigned to provide Ms. Ravitz’s care. “Ms. Ravitz also was concerned that the immune-suppressing medication she took for Crohn’s disease could further affect her recovery from surgery.

“I put her at ease by assuring her that we would go step-by-step and cover all of our bases in determining the best course of treatment,” said Dr. Clark, “and I gave her lots of specific information about the pros and cons of every option available to her.”

“After doing a CT scan and consulting with the Ashman Department of Periodontology & Implant Dentistry, I ruled out implants because Ms. Ravitz’s bone loss levels required bone grafting surgery. Next, I consulted with the Department of Prosthodontics about doing a bridge, but we eliminated that as an option because it would require grinding down two good teeth. As a result, I decided that a removable partial denture was the best course of treatment.”

“Believe me, I was nervous,” Ms. Ravitz says of the denture fitting. “Lee Ann took care all the time to make sure everything fitted exactly, so that the denture was perfect. And it is!

“I am glad she decided to go into dentistry. I know she will be a credit to her school and to the profession and her peers.”



RECEIVED
Dear Mr. Bertolami, this letter
I am writing to you in praise of one of your
students, Lee Ann Clark, of the
Dental School.
Lee Ann has been my dentist
for more than one year and has
attended to my every dental
need not only with an expertise
that never ceases to amaze me,
but with a kindness and compassion
that I feel is truly rare.
After all, I am 75 years old.
Shouldn't I be ill-humored,
frightened & crocheting? Lee Ann
made sure she allayed all
my fears and apprehensions.
The other day I was fitted with
a partial on a removable appliance.
Believe me, I was nervous. Lee
Ann took care all the time to

“It is heartening to know that the education and clinical training that NYU dental students receive enables them to provide our patients with the finest possible care.”

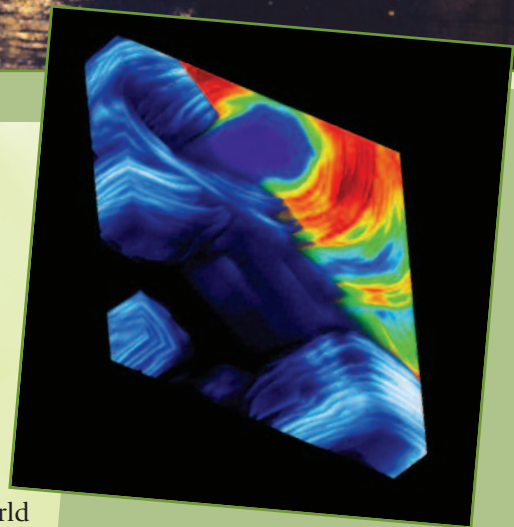
SPANISH GALLERY EXHIBITS DR. TIMOTHY BROMAGE'S ART FROM THE MICROSCOPE



The Kubo-Kutxa Exhibition Hall in San Sebastian, Spain.

An exhibition of scientific imaging as art by Dr. Timothy Bromage, an Adjunct Professor of Biomaterials & Biomimetics and of Basic Science & Craniofacial Biology, opened in April at the Kubo-Kutxa Exhibition Hall in San Sebastian, Spain—one of Europe’s most prestigious showcases for contemporary art. This is the exhibition’s most recent stop on a world tour that began in 2004.

“Osseous Cosmos” (roughly translated as the “Skeletal Cosmos”) features images of hard tissue structures that Dr. Bromage captured with the microscopes in his laboratory at NYUCD. Dr. Bromage uses microscopes to analyze hard tissue patterns occurring in bones, teeth, fish scales, and other structures for clues about an organism’s life history. Using digital imaging, Dr. Bromage creatively alters colors to highlight miniscule but important features or to apply computer formulas (algorithms) to calculate the tissue’s growth rate, creating images that are startling in their beauty as well as in their scientific importance.



One of Dr. Timothy Bromage's micrographs on exhibition.

DR. TONINO CIOCCA IS LITVAK FELLOWSHIP RECIPIENT

Dr. Tonino Ciocca, Class of 2010, and a second-year student in the Jonathan and Maxine Ferencz Advanced Education Program in Prosthodontics, has become the 11th recipient of the Dr. Harold Litvak Junior Fellowship in Prosthodontics.

After completing his prosthodontics specialty training, Dr. Ciocca plans to pursue a career in private practice.

“Dr. Ciocca was awarded the fellowship because of his ability to excel academically, the high level of satisfaction among his patients, and his very positive interaction with faculty and peers,” said Dr. Farhad Vahidi, Associate Professor of Prosthodontics and Director of the Jonathan and Maxine Ferencz Advanced Education Program in Prosthodontics.

The Litvak Fellowship was established in 1999 through a generous gift from Mrs. Adele Block in honor of her dentist, Dr. Litvak, a Clinical Professor of Prosthodontics at NYUCD and a generous donor to the College, for whom the Litvak Prosthodontics Wing is named. Mrs. Block is a member of the family that owned the Block Drug Company, Inc., a major producer of oral and general healthcare products, which is now a division of GlaxoSmithKline.



Dr. Litvak with Dr. Tonino Ciocca

“Dr. Ciocca was awarded the fellowship because of his ability to excel academically, the high level of satisfaction among his patients, and his very positive interaction with faculty and peers.”

SUSAN ABRAHAM'S SCULPTURES GO GLOBAL



When she is not at her day job as NYUCD's Director of Administration, Susan Abraham dedicates herself to carving site-specific, massive stone sculptures commissioned by international arts and public works organizations.

"Symposiums offer a fantastic opportunity to work in a foreign land," says Susan, "alongside sculptors from countries across the globe, often carving local stone, and, at the same time, teaching the public about art and the stone-carving process."

To view more of Susan's sculptures, please go to www.sabraham-sculpture.com.

Top: A working photo showing Susan sanding a sculpture originally carved from a six-ton block of black marble over a four-week period at the First International Stone Sculpture Symposium in Monterrey, Mexico, in October 2007.

Center: The finished sculpture was on display at the Museum of Contemporary Art (MARCO) in Monterrey, and is now in the possession of one of the symposium's sponsors.

Bottom: Two views of "Watermark," which Susan carved from 1,000 pounds of Croatian limestone during 14 days at the International Sculpture Symposium in Balatonfured, Hungary, in summer 2008.



DR. TARNOW AND DR. LEGEROS RECEIVE PRESTIGIOUS ICOI AWARDS

The International Congress of Oral Implantologists (ICOI) presented two prestigious awards to NYUCD faculty recently in recognition of outstanding contributions to the field of implant dentistry. Dr. Dennis P. Tarnow, Professor and Chair of the Ashman Department of Periodontology & Implant Dentistry, received the Kenneth W. M. Judy International Education Award. Dr. Racquel Z. LeGeros, Professor and Associate Chair of the Department of Biomaterials & Biomimetics and Linkow Professor of Implant Dentistry, received the Ralph V. McKinney, Jr., Annual Award in Basic and Clinical Research.



The awards were presented to Drs. LeGeros and Tarnow by Dr. Adi Palti, President of ICOI.

NYUCD STUDENTS IN THE SPOTLIGHT AT GREATER NEW YORK DENTAL MEETING

Forty-two NYUCD students participated in the 84th Annual Greater New York Dental Meeting held at the Javits Convention Center in November, giving the College a strong presence at one of the nation's largest dental expositions.

Fourteen of the 18 students participating in the Dental Student Table Demonstration were from NYUCD, and students from the College took four of the five top prizes in the research competition.

Dental hygiene students also were major contributors to the event. Twenty-seven students from the AAS and BS programs in dental hygiene, under the direction of Ms. Winnie Furnari, Clinical Assistant Professor of Dental Hygiene, partnered with the Greater New York Dental Meeting to provide on-site oral health education for public school children. The students demonstrated toothbrushing and flossing techniques and provided tips on eating healthy and avoiding foods high in sugar.

Dean Bertolami hosted a reception for NYUCD students who participated in the Greater New York Dental Meeting.

Top: The Dean with Mr. Leon Su, '11, and Mr. Siu Hang Ngan, '11

Center, from left: Mr. Valentin Sviatocha, '11, Ms. Ella Lim, '11, Ms. Maryam Toufani, '11, and Dr. Louis Terracio, Associate Dean for Research

Bottom: Ms. Marissa Matthews, '11, and Mr. Joshua Davis, '11



CONGRATULATIONS TO...



Dean Bertolami, fourth from right, at House Speaker Nancy Pelosi's news conference in January announcing the passage of the SCHIP (State Children's Health Insurance Program) bill by the U.S. House of Representatives.

DR. CHARLES N.

BERTOLAMI, Herman Robert Fox Dean of NYUCD and Immediate Past-President of the American Dental Education Association (ADEA), for his Op-Ed piece in the influential Washington, DC-based legislative newsletter, *Roll Call*, entitled "Health Care Reform Must Include Dental Care."

DR. TIMOTHY BROMAGE,

Adjunct Professor of Biomaterials & Biomimetics and of Basic Science & Craniofacial Biology, on being awarded Honorable Mention in the 2008 Olympus BioScapes Digital Imaging Competition for his

microscopic digital image of the cusp of a human molar tooth; on authoring an article entitled "Coupled Microbial and Human Systems: Evidence for a Relationship Between Infectious Disease and Gross National Product" for *Clinical*

Microbiology and Infection; and on coauthoring articles entitled "Confocal Scanning Optical Microscopy of a 3my Australopithecus Afarensis Femur" for the *Journal of Scanning Probe Microscopy*, and "Lamellar Bone Is an Incremental Tissue Reconciling Enamel Rhythms, Body Size, and Organismal Life History" for the *Journal of Calcified Tissue International*.

DR. STEVEN M. BUTENSKY,

Clinical Assistant Professor of Prosthodontics, on being cited as one of the "Best Advisors" for dentistry in "The Best Advice" section of *Best Life* magazine.

DR. JOHN R. CALAMIA,

Professor of Cariology & Comprehensive Care, on receiving the 2009 Outstanding Scientific Advancement in

Cosmetic Dentistry Award during the 25th Anniversary Scientific Session of the American Academy of Cosmetic Dentistry.

DR. LEE ANN CLARK, '09,

on authoring an article entitled "Why Teach? One Dental Student's Views from Both Sides of the Lectern," for the *Journal of Dental Education*.

**DR. ELENA CUNNINGHAM,**

Adjunct Assistant Professor of Basic Sciences and Craniofacial Biology, on authoring an article entitled "Inside the Minds of Lemurs: Using GPS & GIS to Get There" for *Connect*, NYU's Information Technology Newsletter.



MS. ANNETTE CUTUGNO, Assistant Director for Operations, Human Resources, and Administrative Services, on being appointed to the all-University Greening Committee.

DR. ANANDA P. DASANAYAKE, Professor of Epidemiology & Health Promotion, on receiving the Sri Lanka Foundation's 2008 Exceptional Achievement Award for Pioneering Research Work in Epidemiology and Oral Health.

DR. NANCY DOUGHERTY, Clinical Associate Professor of Pediatric Dentistry and Director of the Advanced Education Program in Pediatric Dentistry, on authoring an article entitled "The Dental Patient with Special Needs: A Review of Indications for Treatment Under General Anesthesia," for *Special Care in Dentistry*.

DR. ELISE S. EISENBERG, '84, on authoring an article entitled "iTunesU @ the NYU College of Dentistry" for *Connect*, NYU's Information Technology Newsletter. Added kudos to Dr. Eisenberg on accepting the ADEA Thomas F. Nowlin Award for Best Performance by a section, on behalf of the ADEA Section on Dental Informatics; on presenting a talk about NYUCD's podcasting initiative at the prestigious World Wide Developers Annual Conference in San Francisco sponsored by Apple; and on speaking at MIT in Cambridge, MA, at a conference cosponsored by maclearning.org and Apple on "Beyond the LMS: Innovations in Higher Education and Scholarship."



DR. MICHAEL FERGUSON, Clinical Associate Professor of Prosthodontics, on being profiled by the French Magazine

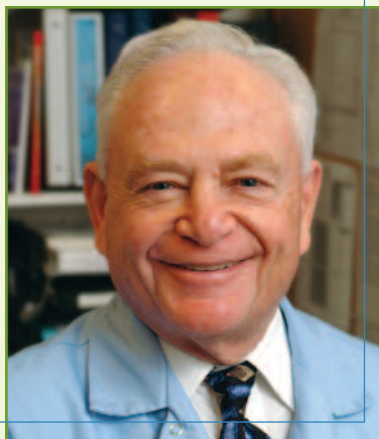
Indepentaire for an article on the similarities and differences between dental educators in the United States and in France.



DR. KENNETH E. FLEISHER, Assistant Professor of Oral and Maxillofacial Surgery, on presenting a lecture entitled "Current Strategies for the Prevention and Management of Osteonecrosis of the Jaw" at the Annual ONS (Oncology Nursing Society) meeting.

DR. HERBERT FROMMER, Professor Emeritus of Oral & Maxillofacial Pathology, Radiology & Medicine," on authoring "A Sign of the Times, Contemporary Dental Imaging Artifacts" for *The New York State Dental Journal*. Dr. Frommer's coauthor was Ms. Jeanine J. Stabulas-Savage, Clinical Assistant Professor of Oral & Maxillofacial Pathology, Radiology & Medicine.

DR. ROBERT S. GLICKMAN, Professor and Chair of the Mecca Department of Oral and Maxillofacial Surgery; Dr. Michael D. Turner, Assistant Professor of Oral and Maxillofacial Surgery; and Dr. Brendan O'Connor, Clinical Assistant Professor of Oral and Maxillofacial Surgery; on being appointed Examiners for the Fellowship Examinations for the Royal College of Surgeons in Ireland.



DR. DAVID L. GLOTZER, Clinical Professor of Cariology & Comprehensive Care, on authoring a guest editorial entitled "Introducing Catastrophe Preparedness into the Dental Curriculum," for the *American Society for Dental Aesthetics News*. Added kudos to Dr. Glotzer on developing "What to Do Before, During, and After An Emergency or Disaster: A Preparedness Toolkit

for Office-based Health Care Practices." The toolkit, which was funded by the U.S. Department of Health and Human Services, was prepared by the American Medical Association Public Health Readiness Office and the Columbia University School of Nursing Center for Health Policy, in consultation with the ADA. Added kudos to Dr. Glotzer, and his colleagues, Dr. Benjamin Godder, Clinical Associate Professor of Cariology & Comprehensive Care, and Dr. Miriam Robbins, Associate Professor and Associate Chair of the Department of Oral & Maxillofacial Pathology, Radiology & Medicine, on conducting the Basic Life Support course for a group of Emergency Medicine residents at the NYU/Bellevue Medical Center.



MS. PARIYA GOODARZI, '12,

on being selected to receive the 2008 New York Academy of Dentistry Student Research Award for a presentation entitled "Comparison of Oral Bacterial Composition After the Use of Two Commercially Available Mouthwashes."



DR. GARY GREENSTEIN, Clinical Associate Professor of Periodontology & Implant Dentistry, on coauthoring an article entitled "Flap Advancement: Practical Techniques to Attain Tension-Free Primary Closure," for the *Journal of Periodontology*, with Dr. John S. Cavallaro, Jr., Clinical Associate Professor of Prosthodontics; Dr. Nicolas Elian, Assistant Professor of Periodontology & Implant Dentistry; and Dr. Dennis P. Tarnow, Professor and Chair of the Ashman Department of Periodontology & Implant

Dentistry; on coauthoring "Clinical Recommendations for Avoiding and Managing Surgical Complications Associated With Implant Dentistry: A Review," for the *Journal of Periodontology*, with Dr. Tarnow, Dr. Cavallaro, and Dr. Georgios E. Romano; "Practical Application of Anatomy for the Dental Implant Surgeon" for the *Journal of Periodontology*, with Dr. Cavallaro and Dr. Tarnow; and "The Role of Bone Decortication in Enhancing the Results of Guided Bone Regeneration: A Literature Review" for the *Journal of Periodontology*, with Dr. Cavallaro and Dr. Tarnow.



MS. RACHEL HILL, on being appointed a Program Administrator in the Office of International Affairs & Development.



Dr. Kurtz, Dr. Donal Blackwell, President, Irish Dental Association, and Dr. Tarnow at the Irish Dental Association Meeting in Kilkenny, Ireland.

DR. KENNETH S. KURTZ, Clinical Associate Professor of Prosthodontics, on coauthoring an article entitled "Laser Surface Treatment to Improve Mechanical Properties of Cast Titanium" for *Dental Materials*; presenting a series of lectures at the 2009 annual Irish Dental Association Meeting (IDA) in Kilkenny, Ireland; at the International Conference on the Multi-disciplinary Management of ED and Severe Hypodontia in Nijmegen, The Netherlands; and at the 2009 meeting of the Academy of Osseointegration Dental Laboratory Technician Program, including one with Mr. Leonard Marotta, Clinical Associate Professor of Periodontology & Implant Dentistry; and at the 2009 annual meeting of the Academy of Osseointegration.

DR. WAYNE KYE, '01, Clinical Assistant Professor of Periodontology & Implant Dentistry, on completing the Health Professions Program for Dental School Faculty cosponsored by the American Dental Education Association (ADEA) and the Academy for



Dr. Kye, right, his wife, newly elected Assemblywoman Grace Meng, and their son Tyler Kye, with NYS Assembly Speaker Sheldon Silver at Ms. Meng's inauguration in January.

Academic Leadership Institute for Teaching and Learning.

DR. CHARLES LARSEN, Clinical Assistant Professor of Pediatric Dentistry, on coauthoring an article entitled "A Comparison of Urban School- and Community-Based Dental Clinics," for the *Journal of School Health*.

DR. YIHONG LI, Associate Professor of Basic Science & Craniofacial Biology, on coauthoring an article entitled "*S. mutans* and *S. sanguinis* Colonization Correlated with Caries Experience in Children," for *Caries Research*, with Dr. Page Caufield, Professor of Cariology & Comprehensive Care; and Dr. Gene S. Fisch, Research Professor of Epidemiology & Health Promotion; and on coauthoring an article entitled "A Literature Review of the Association of *mutans Streptococci* Between Caregivers and Their Children," for *Pediatric Dentistry*.

DR. WILLIAM MALONEY, '92, Clinical Assistant Professor of Cariology & Comprehensive Care, on authoring an article entitled "Babe's Lessons of History, Dentistry and Humanitarianism," for the *Journal of the Ninth District*

Dental Association; and on publishing a review of Stewart's Clinical Removable Partial Prosthodontics in the *New York State Dental Journal*.

DR. MAUREEN MCANDREW, '83, Clinical Associate Professor of Cariology & Comprehensive Care, on presenting a lecture entitled "Project Millennials: Make it Work with Generation Y," at the University of Detroit Mercy Dental School; and on co-presenting lectures entitled "Bring 'em Young! Instilling an Early Interest in Academia," and "Plant the Seed: Creating Peer Teaching Opportunities," at the 2009 annual meeting of the American Dental Education Association.



MS. AMANDA MEISSNER, on being appointed a Program Administrator in the Office of

International Affairs & Development.



DR. IVY PELTZ, '83, Clinical Associate Professor of Cariology & Comprehensive Care and Group Practice Director, on presenting a seminar entitled "The Millennials Hit the Clinics: What to Do Now?" at the University of Puerto Rico School of Dentistry. Dr. Peltz's co-presenters were Dr. Maureen McAndrew, Clinical Associate Professor of Cariology & Comprehensive Care, and Dr. Ralph Cunningham, '72, Clinical Associate Professor of Cariology & Comprehensive Care. Dr. Peltz also co-presented a Faculty Development Workshop entitled "That's Edutainment!—Using Humor, Media, and Gaming to Enhance Clinical Learning" at the 2009 annual ADEA meeting in Phoenix, where her co-presenters

were Dr. Eric Studley, '84, Clinical Associate Professor of Cariology & Comprehensive Care and Group Practice Director; Dr. Timothy Culotta, Clinical Assistant Professor of Cariology & Comprehensive Care and Group Practice Director; Dr. McAndrew, and Dr. Cunningham; and on presenting a Community of Interest program entitled "Dental Education 101" at the 2009 annual ADEA meeting.

DR. JOAN PHELAN, Professor and Chair of the Department of Oral & Maxillofacial Pathology, Radiology & Medicine, on co-presenting a lecture entitled "HIV, Smoking and Oral Lesions," with Dr. Ross Kerr, Clinical Associate Professor of Oral & Maxillofacial Pathology, Radiology & Medicine, at the New York State Dental Foundation 2008 Summit on Oral Health Care, HIV & AIDS; and on coauthoring the Fifth Edition of *Oral Pathology for the Dental Hygienist* for Elsevier Press with Olga AC Ibsen, Adjunct Professor of Oral & Maxillofacial Pathology, Radiology & Medicine.

MS. LINDAROSE PEROSI, Administrative Secretary in the Department of Oral and Maxillofacial Surgery, on receiving an Appreciation Award from the NYUCD Student Council.



DR. MIRIAM ROBBINS, Clinical Associate Professor and Associate Chair of the Department of Oral & Maxillofacial Pathology, Radiology & Medicine, on authoring an article entitled "Dental Management of Special Needs Patients with Epilepsy" for *Dental Clinics of North America*. Added kudos to Dr. Robbins on authoring a training module designed to educate dentists about the treatment of special-needs patients for the New York State Office of Mental Retardation and Developmental Disabilities.

MR. ALEX RUANO, on being appointed a Web Application Programmer in the Office of Informatics.



DR. STEFANIE L. RUSSELL, Assistant Professor of Epidemiology & Health Promotion, on coauthoring an article entitled "Beliefs of Women's Risk as Research Subjects: A Four-City Study Examining Differences by Sex and by Race/Ethnicity," for the *Journal of Women's Health*. Dr. Russell's coauthors included Dr. Ralph V. Katz, Professor and Chair of the Department of Epidemiology & Health Promotion.

MS. ASHLEY SHARP, Development Officer in the Office of Development and Alumni Affairs, on receiving an MPA degree from the NYU

Wagner Graduate School of Public Service.



DR. JYOTI P. SRIVASTAVA, Clinical Associate Professor of Prosthodontics, on receiving a Lifetime Achievement Award from the European School of Economics.

DR. VAN P. THOMPSON, Professor and Chair of the Department of Biomaterials & Biomimetics, on coauthoring an article entitled "Corrosion Resistance Evaluation of a Ca- and P-Based Bioceramic Thin Coating in Ti-6Al-4V" for the *Journal of Materials Science: Materials in Medicine*.

MS. ERIN TOTH, on being appointed Department Administrator for the Office of Clinical Affairs.



Ms. Erin Toth



DR. RICHARD TRUSHKOWSKY, Clinical Associate Professor of Cariology & Comprehensive Care, on authoring an article entitled "Encountering Dentin Sensitivity Before or During Esthetic Treatment" for *Inside Dentistry*.

DR. ANALIA VEITZ-KENNAN, Clinical Assistant Professor of Oral & Maxillofacial Pathology, Radiology & Medicine, on

authoring a summary of Systematic Reviews entitled "The Prevalence of Post-operative Pain and Flare-up in a Single and Multiple Visit Endodontic Treatment" for the ADA's new Evidence-based Dentistry Web site.

DR. ANTHONY VERNILLO, Professor of Oral & Maxillofacial Pathology, Radiology & Medicine, on authoring articles entitled "Pragmatism As a Complementary Approach to Legislation: Closing Regulatory Gaps in Human Subject Research," and "Disclosure of Adverse Clinical Trial Results—Should Legal Immunity be Granted to Drug Companies?" both for *The American Journal of Bioethics*.

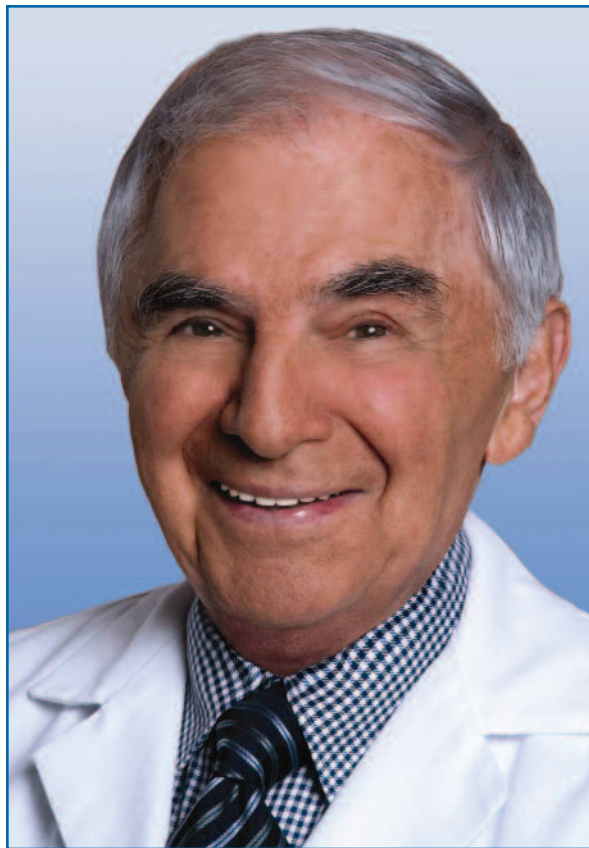
DR. MARK WOLFF, Professor and Chair of the Department of Cariology & Comprehensive Care and Associate Dean for Predoctoral Clinical Education, on presenting his research on new compounds for improving toothpaste effectiveness at the 2009 British Dental Association meeting in Stockholm, Sweden.

National Dental Museum Honors Dr. Irwin Smigel

The National Dental Museum, part of the Smithsonian Institution, premiered a new exhibit, "The Smile Experience," on June 6, 2009. The exhibit, a multimedia presentation, features the achievements of Dr. Irwin Smigel, NYUCD Class of 1951, who is widely known as the "father of aesthetic dentistry" for pioneering tooth bonding for aesthetic purposes in the late 1970s.

Visitors can see how people have enhanced their smiles throughout history, from the ancient Mayans who decorated their teeth with jade, to the Elizabethans who whitened their teeth with acid, to Dr. Smigel's introduction of tooth bonding to the American public on the popular TV show, "That's Incredible," which ushered in the modern age of aesthetic dentistry.

In 2000, NYUCD established the Smigel Prize in Aesthetic Dentistry, which honors individuals who have advanced the field of aesthetic dentistry.



SAVE-THE-DATE FOR FALL ALUMNI REUNION RECEPTION

NYUCD's annual fall Alumni Reunion Reception will be held on **Saturday, October 17, 2009**, at 6:30 pm, at The Water Club (30th Street at the East River). For more details and reservations, please contact Theresa Rinaldi at theresa.rinaldi@nyu.edu or 212.992.7125.

Congratulations to:

'50s

DR. HERBERT F. SPASSER, Class of 1956, on authoring an article entitled "Wine and Dental Health" for *Alcohol in Moderation Online Digest*; and on being named Vice-Echanson Honoraire of the Atlanta Chain Des Rotisseurs.

'60s

DR. ROBERT J. DOHERTY, Class of 1969, on being elected President-Elect of the New York State Dental Association.

'70s

DR. GEORGE K. GLEASON, Class of 1970, on receiving the 2008 PFA Honor Award from the Pierre Fauchard Academy.

DR. JASON S. KASARSKY, Class of 1975, on being featured in an "Ask the Experts" column about periodontal disease in the *Wall Street Journal*.

DR. JAN LINHART, Class of 1979, on being featured in an "Ask the Experts" column about the association between oral health and general health in the *Wall Street Journal*.

DR. STEVEN E. SCHONFELD, Class of 1973, on being installed as President of the California Society of Periodontists.

'90s

DR. CHRISTINA KLEIN, Class of 1997, on her oral health volunteer work in New York-area elementary schools, and on having her Staten Island practice, which she shares

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In Remembrance

Dr. Joseph Cipollina, Class of 1985

Dr. Mark H. Friedman, Class of 1956

Dr. Oscar Grossman, Class of 1952

Dr. Jan Marc Levy, Faculty Member

Dr. Manuel Ribner, Class of 1936

Dr. Jack L. Roemer, Class of 1960

Dr. Peter Romanov, Class of 1963

Dr. Carol Weiss-Horvath, Class of 1990

Dr. Donald Weissman, Class of 1937



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College of Dentistry
David B. Kriser Dental Center
345 East 24th Street
New York, NY 10010-4086

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