

N E W J E R S E Y D E N T A L S C H O O L

annual report 2006

EDUCATION FOR AMERICA'S NEW DENTISTS





I am pleased to be asked once again to write a message for UMDNJ-New Jersey Dental School's annual report.

Among UMDNJ's strategic priorities is a re-examination of what I've termed our "foundational commitment" to provide clinical care for the communities we serve, especially Newark. New Jersey Dental school has consistently been a model for providing care and promoting prevention in the community, from the Special Care Treatment Center in Newark, which provides care for mentally and physically challenged patients; to a statewide community-based network that offers care to the underserved at four state-of-the-art facilities; to free screenings for oral cancer at health fairs. The school's commitment to the underserved is exemplary.

New Jersey Dental School has also been a leader in incorporating the importance of service and addressing the challenges of health disparities in its educational and research missions. This year, for example, faculty members participated in a cultural competency conference focusing on caring for the State's multicultural population. And in a major area of research at the school, the focus is on microbial markers for periodontal disease and its relation to an aggressive disease that primarily affects African-American and Hispanic children. The dental school screened more than 1,000 children for the presence of this specific organism and plans to follow those affected for three years.

I congratulate the school on being awarded a seven-year accreditation in July 2006 by the Commission on Dental Accreditation, the culmination of a successful site visit last year. While the school, like all of us, has experienced occasional bumps in the road, it continues to move rapidly in the right direction. The faculty, staff, and students can take great pride in their contributions to an environment of excellence, and I thank them for their dedication.

A handwritten signature in black ink, reading "Bruce C. Vladeck". The signature is fluid and cursive, with a large initial "B".

Bruce C. Vladeck, PhD

INTERIM PRESIDENT OF UMDNJ





New Jersey Dental School's faculty, students, and staff make up a vibrant community dedicated to addressing oral health needs, furthering our knowledge of health and disease, and preparing the next generation of oral health professionals. In our school, new ideas are encouraged and pursued, and people are valued for all that they bring. It is this environment that has enabled the school to continue to grow and prosper.

This year has seen the opening of our state-of-the-art Delta Dental of New Jersey Educational Conference Center. The center has become the focal point for our educational activities, as well as a hub for professional continuing education for practitioners throughout the State. We also opened our Clinical Research Center, a center that enables exciting translational research to be conducted right in our school.

We have worked to attract students from diverse backgrounds so that we can train dentists who can reach out to all communities. And we have strengthened our collaborations with our sister UMDNJ schools through new joint admissions, recruitment, and student mentoring services.

Most important, our proud tradition of educational excellence has continued, as evidenced by licensing board performance, student placement into postgraduate programs, and feedback received from our colleagues who have had the pleasure of hiring or working with our graduates.

Our many supporters have enabled New Jersey Dental School to continue to develop centers of excellence, centers that would not be possible without the help from alumni and our corporate friends. For your assistance and support — thank you. This has been an exciting year for New Jersey Dental School and we would like to share these successes with you.

Cecile A. Feldman, DMD, MBA

DEAN, NEW JERSEY DENTAL SCHOOL



Jerome Silverstein, DDS,
Professor of Restorative Dentistry

A New Jersey Dental School Doctor of Dental Medicine degree is one that symbolizes academic excellence. It symbolizes compassion and caring, and it symbolizes honesty and integrity. For anyone walking into an office where a UMDNJ-NJDS Doctor of Dental Medicine degree hangs on the wall, there should be no doubt that the individual named is a dentist in whom they can have the fullest confidence. —CECILE A. FELDMAN, DMD, MBA, *Dean*

E D U C A T I O N



In Annual Report 2005, we announced our successful November accreditation site visit. At a meeting of the Commission on Dental Accreditation in Chicago on July 25, 2006, the Commission reaffirmed its report and officially awarded NJDS its seven-year accreditation.



According to the New Jersey Department of Health and Senior Services, between 1980 and 1998 the state's black population has grown by 15.9 percent and the Hispanic population has increased by 85 percent. New Jersey Dental School

has worked to increase our services to these communities, and is committed to producing dentists to serve them. The role of higher education should be to approach both students and faculty with an understanding that America is a land of equal opportunity.

New Jersey Dental School ranks high in its ability to attract and graduate outstanding minority professionals. In a recent report by *Diverse Issues in Higher Education*, New Jersey Dental School was in the top seven producers of minority dentists among non-historically black colleges and universities, and in the top ten producers of Hispanic graduates earning their first professional degrees in dentistry.

A Look at Admissions

Our Office of Admissions celebrated another outstanding year in 2006. Applications for 85 student places rose once again to 1,548, an increase of approximately

27 percent from applications received the previous year. Applicants for the Class of 2010 included not only students from our tri-state area, but also students from Delaware, Kentucky, Ohio, Georgia, California and Arizona.

Our outreach programs are a primary reason our applicant pool increases each year. Our Gateway and Decision for Dentistry programs allow high school and college students to spend time here getting a feel for what classes, lab work and patient care will be like. In addition, our Admissions Department reaches out to colleges to encourage students to apply to dental school.

Jeffrey Linfante, DMD, (NJDS '90), Director of Predoctoral Admissions and Recruitment and Assistant Professor of Restorative Dentistry, has provided presentations and tours of the School to students from NJIT, Rutgers, Princeton and Rowan as well as colleges in New York, Pennsylvania and Delaware. Rosa Chaviano-Moran, DMD, (NJDS '86), Acting Director of Multicultural Affairs and Assistant Professor in the Department of Community Health, also makes presentations at colleges as well as participates in outreach to minorities. Many of her programs target Hispanic and other students underrepresented in the dental profession. UMDNJ's Department of Human Resources, in connection with the Mayor's Office of

Employment & Training, runs mini job fairs for high school students, providing participants with exposure to the wide range of professional and administrative positions that are available in the medical field.

Also on the Admissions Committee, Rebecca Reed, DMD, MPA, Assistant Professor in the Department of Community Health, has visited pre-health professional student groups at several colleges throughout the state, often accompanied by NJDS students.

Gateway Program a Bestseller for NJDS

Gateway to Dentistry has been so successful that there is now a waiting list to get into the program. More than 300 college students applied for our spring 2006 program, many of

Decision for Dentistry

New Jersey Dental School's program for high school students has become almost as popular as Gateway. Students participate in a three-visit program that includes orientation and a tour of the facilities, introductory lessons on dentistry, and faculty-led hands-on exercises. The group also visits the anatomy lab and hears current students and postgraduate residents speak about their dental school experiences. The other visits introduce dental specialties, clinic observation, faculty panel discussions, and requirements for entry into dental school, counseling on the science qualifications and information about student financing. Decision for Dentistry originally attracted mainly Newark area students, but in 2006 its reach extended to schools throughout New Jersey.

diversity within medicine and dentistry. College freshman and sophomores from economically and educationally disadvantaged backgrounds attend a six-week summer enrichment program. The program includes academic enrichment in the basic sciences, learning-skills seminars, limited clinical exposure through small-group rotations and clinician seminars. There are also career development seminars and a financial-planning workshop.

In October, Dr. Chaviano-Moran, in conjunction with the NJMS Office of Special Programs and representatives from the National Summer Medical/Dental Education Program (SMDEP), attended the American Association of Medical Colleges (AAMC) Recruitment Fair held in Seattle, Washington. The Recruitment Fair was aimed at underrepresented college and high school



“DENTISTRY IS IN EVERY CELL OF MY BODY. GIVING BACK IS SO IMPORTANT AND THESE STUDENTS ARE OUR LEGACY. THEY COME IN HERE KNOWING VERY LITTLE. FOUR YEARS LATER, THEY GRADUATE AS CAPABLE DENTISTS.”

— Daniel Chertoff, NJDS '61
Clinical Professor, Department of Restorative Dentistry

them from outside the tri-state area, including Ohio, Michigan, Virginia, Florida, Texas, California, and Puerto Rico. This unique program, designed to introduce undergraduate college students to the wide range of career options associated with the dental profession, was first piloted in June 2000 with five students, all New Jersey residents. Since May 2002, the program has enrolled 30 qualified applicants twice yearly. Close to 60 percent of the program participants have been accepted to NJDS, and Gateway participants have comprised approximately one-fourth of the last three incoming classes.

Summer Programs for Budding Scientists

New Jersey Dental School remains busy during the summer with clinics open, continuous patient care and students busy with research projects. NJDS also attracts many high school and college students who visit during the summer to attend seminars about science and healthcare careers.

In 2006, NJDS and UMDNJ-New Jersey Medical School (NJMS) received a grant to join the Summer Medical and Dental Education Program sponsored by the Robert Wood Johnson Foundation. The program promotes

students nationwide and their pre-health advisors, guidance counselors and parents. Over 400 participants attended medical/dental career awareness workshops and listened to panel discussions on admissions, prerequisites, financial assistance, and enrichment programs.

As part of a program created especially to encourage motivated and academically capable students from economically and educationally disadvantaged backgrounds to explore professional careers in the sciences, Montclair State University brought incoming freshman to visit the Dental School. The program increases student awareness of the importance of academic preparedness, encourages

academic excellence, provides the reinforcement students need to complete undergraduate requirements in science disciplines and provides supportive services such as tutoring, mentoring and counseling to succeed academically. During their visit to NJDS, students heard from the admissions director and faculty about the challenges of entering dental school.

Our Postgraduate Programs

Many dental school graduates desire postgraduate programs and internships to perfect their diagnostic and clinical skills. Our postgraduate programs provide advanced skills in areas such as Advanced Education in General Dentistry, Endodontics, General Practice Residency, Oral and Maxillofacial Surgery, Oral Medicine,

Scott Diehl, PhD, Director of the Center of Pharmacogenomics and Complex Disease Research. “Andrea’s research is focused on developing more powerful statistical methods for finding disease susceptibility genes,” Dr. Diehl says, “and we will be applying these in our studies of aggressive periodontitis, cleft lip and palate, and head and neck cancer.”

The Orofacial Pain Fellowship/Master’s Program, directed by Eli Eliav, DMD, PhD, Associate Professor and Robert and Susan Carmel Endowed Chair in Algesiology, has nine graduate students working toward their master’s degrees in dental science with a specialty in orofacial pain. Orofacial pain focuses on the diagnosis and management of chronic, complex pain disorders of not only the dental structures, but of the head and face, such as



Orthodontics, Pediatric Dentistry, Periodontics and Prosthodontics.

In 2005, the Department of Oral Biology began a PhD program. A total of four doctoral students are now working on their dissertations in the laboratory. One student, Andrea Maes, will be completing her joint dissertation with the Health Informatics Department of UMDNJ’s School of Health Related Professions in the next few months. Ms. Maes has been a Merck employee since 1997 as a statistician and biometrician, and through a fellowship leave program, Merck is supporting her full time dissertation research in the laboratory of

headaches that can mimic dental pain, and temporomandibular disorders (TMD). Many dentists and physicians now work together to diagnose the source of this pain in order to avoid unnecessary dental procedures.

Education Initiatives: Summer Externships

NJDS students are encouraged to participate in externships in which they visit other dental schools or public health clinics for periods of between one and four weeks. As part of the Office of Student Affairs externship program,





students have worked in the Metlakatla Alaska Indian Health Service, Loma Linda University in Loma Linda, California, Vanderbilt University in Nashville, Tennessee, and over 60 other sites. The 2005 “Badlands 6” was comprised of six students traveling with Drs. James Delahanty and Gary Vitaletti, Clinical Associate Professors in the Department of Diagnostic Sciences, to the Pine Ridge Indian Health Services Hospital in South Dakota.

In August 2006, the OKU-Omega Omega Scholarship Foundation expanded the “Badlands 6” externship by creating the “Badlands 13.” Six students returned to the Oglala Sioux Tribal Nation Reservation in Pine Ridge, South Dakota, and seven students made a first visit to the Quentin N. Burdick Memorial Health Care Facility in Belcourt,

“INSIGHT, INDEPENDENT THOUGHT, CLINICAL JUDGMENT, AND SEEING THE BIG PICTURE. CALL IT WHAT YOU WILL, THIS IS WHAT TEACHERS HOPE FOR IN THEIR STUDENTS.”

—Patrick Quaranta, DMD '72
Associate Professor, Department of Diagnostic Sciences

North Dakota, serving the Chippewa Tribal Nation. NJDS students treated 161 patients and completed over 200 procedures, becoming very proficient at ways to salvage and restore teeth to avoid performing extractions.

This year's South Dakota externship focused primarily on prosthodontics. NJDS faculty member Asha Samant, DMD, Associate Professor in the Department of Restorative Dentistry, and Eva Bober, a certified dental laboratory technician trained in denture fabrication, accompanied the students. While our students provided other types of dental treatment at Pine

Ridge, many patients left smiling, showing off their new dentures.

Education Initiatives: Foreign Exchange Program

The School's externship program has expanded to offer international placements. In 2006, a pilot program was arranged through an agreement with Trinity College-College of Dentistry, Dublin, Ireland, and supported by The International College of Dentistry. Jeffrey Lane, '07, received an award for an externship to Dublin. He was invited to observe in clinic and participate in case conferences and small group learning activities designed to expose him to knowledge of Ireland's demographics and cultural attitudes towards oral health, as well as



differences in healthcare systems and professional outlooks. In exchange, two fourth year students from Trinity College will visit NJDS in July 2007. Future plans call for expansion of opportunities to other countries, and initial discussions are under way with dental schools in Australia, Denmark and Brazil.

A New Master Educator

Muralidhar Mupparapu, DMD, Director of the Division of Oral & Maxillofacial Radiology, is the Dental School's newest Master Educator. He

joins a distinguished list of NJDS faculty who have received this University award since former UMDNJ President Stuart D. Cook, MD, established the Master Educators' Guild in 2000.

Dr. Mupparapu, who earned his DMD degree at the University of Pennsylvania in Philadelphia, has been an Associate Professor in the Department of Diagnostic Sciences since 2002. Among his grants are one from the NJDS Master Educators for developing a "Local Area Network (LAN) for digital radiograph image acquisition and retrieval" and a UMDNJ Educational Technology Grant (2006) for "A paperless and wireless Oral Radiology clinic." Dr. Mupparapu has served on the Faculty Development Committee and the NJDS Quality Council. He is an active member of the ADA, American Academy of Oral and

presented a poster. Drs. Samant and Reed lectured at the Mulana Azad Dental College in New Delhi, explaining how dentistry is taught in the United States. Students were very interested in NJDS's Head Start Oral Health Assessment project, which served as a model for community service, paving the way for the development of pre-school dental clinics.

Anil Ardeshta, DMD, Assistant Clinical Professor in the Department of Orthodontics and Director of Post Graduate Orthodontics, presented several times in India during June 2006. Milton Houpt, DDS, PhD, Associate Dean of Academic Affairs and Chair of the Department of Pediatrics, gave the keynote lecture on Preventive Dentistry in Action at the 5th Conference of the Pediatric Dentistry Association of Asia in Taiwan in June. Hoda

Opening of Delta Dental Conference Center

Wednesday evening, October 11, marked the grand opening and dedication of the Delta Dental Educational Conference Center at New Jersey Dental School. The event, sponsored by Delta Dental and New Jersey Dental School, included the unveiling of the plaque honoring Delta Dental's Board and remarks from Dean Feldman, Dr. Gerald Sydell, Chairman of the Board of Delta Dental NJ, James Rowan, representing UMDNJ Interim President Bruce Vladeck, and Elizabeth Ketterlinus from the UMDNJ Foundation. The newest space of the growing Dental School is the only teaching or meeting space within the UMDNJ Newark campus that can accommodate more than 400 participants. The Center, which includes three lecture halls,



Maxillofacial Radiology, the International Association of Dentomaxillofacial Radiology, the International Association for Dental Research, and the American Academy of Dental Medicine.

Teaching Classes Abroad

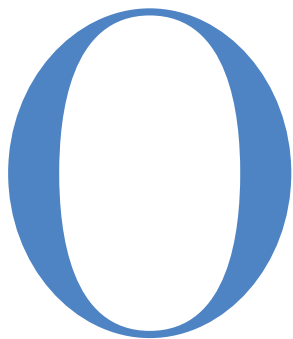
Many members of the NJDS faculty spoke at international conferences. Asha Samant, DMD, was the keynote speaker at the 59th Annual Indian Dental Conference in Punjab, India, where Rebecca Reed, DMD, MPA,

Youssef, DMD, MS, Associate Professor in the Department of Restorative Dentistry, spoke at a major dental conference in Brazil. Eli Eliav, DMD, PhD, Associate Professor and Robert and Susan Carmel Endowed Chair in Algesiology, and Gary Heir, DMD, Clinical Professor, both members of the Diagnostic Sciences Department, are internationally recognized faculty in the area of orofacial pain. They have lectured all over the world this year, including Brazil, Peru, Australia, Korea, Japan, Spain, the Netherlands, Israel, and Turkey.

three conference rooms, and a school lounge will be a community gathering place for NJDS, UMDNJ and professional organizations. ■

The experience in our clinics at New Jersey Dental School teaches our students how to deal on a personal level with people who have chosen to put their oral healthcare in our hands. —MICHAEL CONTE, DMD, MPH, Associate Dean for Clinical Affairs

P A T I E N T C A R E



ur patient care continues to focus on serving New Jersey's multicultural residents, many of whom face difficulties receiving dental care. Working with a diverse patient population also gives our students training in cultural competency. These skills, which are important for communicating with a variety of patients, affect overall treatment outcomes.

New Jersey is the first state in the nation to require cultural competency education as part of continuing education for all physicians. New Jersey Dental School is following that same mission. Several members of the NJDS faculty, including Hillary Broder, PhD, MEd, Endowed Hunterdon Professor and Acting Chair of the Department of Community Health, and Rosa Chaviano-Moran, DMD, Acting Director of Multicultural Affairs, attended the University's April 24 cultural competency conference entitled "Caring For New Jersey's Multicultural Population: A Cultural Competency Summit."

The conference was part of the UMDNJ Bildner Campus Diversity initiative, linking cultural competency to the mission, vision and values of the University. The initiative focuses on recognizing that a patient's culture influences the communication and relationship between him or her and the health provider, and that the relationship affects patient satisfaction. Health workers must have the knowledge, skills and attitudes necessary to care for patients of diverse backgrounds.

Free Screenings Focus On Oral Cancer Education

New Jersey Dental School is a member of the Oral Cancer Consortium (a group of 26 metropolitan area healthcare institutions and professional societies), as well as the Essex County Cancer Coalition. Free annual oral cancer screenings are performed at the School and in our Statewide Network. On April 20 at the School's Oral Health Pavilion, volunteer faculty, students and alumni spent time explaining the risk factors for oral cancer and performed comprehensive oral examinations. These oral cancer screenings are essential for the early detection of disease.



As the only dental school in the State of New Jersey, NJDS takes its responsibility to provide dental care and prevention for the underserved very seriously. Both young and old receive care through several programs during the year.





Tables in the waiting area displayed literature about oral cancer and other forms of cancer as well. Visitors at this Essex County Cancer Fair and Oral Cancer Screening were provided with questionnaires to assess their knowledge of the causes of oral cancer and habits that might increase one's chances of developing it. Arnold Rosenheck, DMD, Assistant Dean for Hospital Affairs and Institutional Development and a leader in organizing the Oral Cancer Consortium, states, "Oral cancer kills about half the people diagnosed with it. If it is detected early enough, very few affected with the disease should die." Among the NJDS faculty members present was Robert Shekitka, DMD '77, president-elect of the New Jersey Dental Association, who has a private practice in Maplewood. Also conducting examinations was David Lederman, DMD, a member of the Governor's Task



Treatment in New Jersey. He was vice president of the New Jersey State Board of Dentistry, where he is currently a member. Dr. Rosenheck also serves as consultant on oral healthcare to senior administration at the New Jersey Department of Health and Senior Services.

Advanced Patient Care

New Jersey Dental School offers postgraduate training in Advanced Education in General Dentistry, Endodontics, General Practice, Oral and Maxillofacial Surgery, Orofacial Pain, Oral Medicine, Orthodontics, Pediatric Dentistry, Periodontics, Prosthodontics, and Special Needs Dentistry. These postgraduate programs include a significant amount of time in our many clinics, developing skills in advanced treatment techniques

DENTISTS DEVOTE THEIR CAREERS TO HELPING PEOPLE. THIS ASSISTANCE CAN BE IN THE FORM OF CREATING A SMILE, ALLEVIATING PAIN, TREATING CRANIOFACIAL ABNORMALITIES OR HELPING A PATIENT ACCEPT A DIAGNOSIS OF ORAL CANCER.

— Dean Feldman



Force on the Prevention, Early Detection and Treatment of Cancer in New Jersey. Dr. Lederman, representative from NJDS to the consortium, stated, "We want to raise the consciousness of the public to the need for periodic comprehensive oral examination."

Making a Difference in Public Policy

In May, Governor Jon Corzine appointed Arnold H. Rosenheck, DMD, to the statewide Task Force on Cancer Prevention, Early Detection and

and learning how to communicate with patients undergoing such treatments.

Our postgraduate students develop additional skills in caring for patients with special needs and those who are medically compromised. They receive advanced training in recognition and management of a wide variety of primary oral disorders and oral manifestations of systemic disease or oral complications of medical treatment.

Postgraduate students in Pediatric Dentistry spend their time in our Pediatric Clinic, learning

how to competently evaluate, improve and maintain the oral health of infants, children, adolescents and persons with special health care needs in a productive and compassionate manner. Postgraduate students in Prosthodontics develop skills pertaining to the restoration and maintenance of oral function, comfort, appearance and health of the patient by the restoration of natural teeth and/or the replacement of missing teeth and contiguous oral and maxillofacial tissues with artificial substitutes.

Postgraduate students leave our programs as competent clinicians, capable of dealing with the range of patient needs in a typical practice. Dentists completing the programs are able to fulfill all the requirements for certification by American boards of their dental specialties.

uniquely suited to an educational experience for nearly 190 graduate and postgraduate students. Fourth-year predoctoral students participating in our Community Oriented Dental Education Program (CODE) spend their time in an environment that mirrors dental clinics where they will serve. In addition, the network has provided countless hours of training to dental professionals seeking to increase their HIV expertise and clinical management skills.

Our Youngest Patients

Pediatric Dentistry is the practice of preventive and therapeutic oral healthcare for children from birth through adolescence. Our pediatric clinic recorded 9,300 patient visits in 2006. Another 767 patients received emergency

The Special Care Treatment Center at New Jersey Dental School

In our 2005 Annual Report we highlighted the importance of the NJDS Special Care Treatment Center, part of our Department of Pediatric Dentistry, established in 1994. The Center is the leading provider of high-quality comprehensive dental care for the special needs population in New Jersey. The Surgeon General of the United States has gone on record stating that you cannot have good overall health without good oral health. This is true for everyone but especially so for this expanding group of physically and mentally challenged patients. Special needs includes the mentally retarded, those with cerebral palsy, autism, and individuals who are psychiatrically impaired, to name just a few. This year the



Extramural Clinics

The four state-of-the-art facilities of the Statewide Network, under the leadership of Cosmo V. DeSteno, DMD, PhD, Associate Dean for Extramural Affairs, and Director Jill A. York, DDS, MAS, serve as venues for increasing the number of oral healthcare providers in underserved communities. For the past 16 years, the dental centers have offered patients high-quality, affordable, comprehensive oral healthcare. With more than 375,000 patient visits, the community-based dental centers have provided a setting

treatment as well as 72 who were treated under general anesthesia at UMDNJ-University Hospital. The existing clinic is inadequate for the demand the public places upon it. There is a need to expand and renovate. The Dr. Cavan Brunnsden and Dr. Nancy Villa-Brunnsden 2005 gift to our Capital Campaign allowed us to design and develop the new 8,717 square foot Brunnsden-Villa Pediatric Center, which will include an area for our Special Care Treatment Center.

clinic had 3,664 patient visits, 350 special needs cases handled at University Hospital, and 104 emergency patients. ■



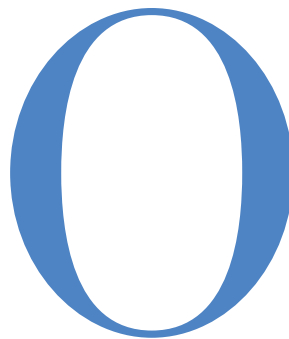
There's been a rekindling of interest in infectious disease in the medical community, stemming both from the emergence of AIDS and increasing awareness that bacteria are becoming resistant to antibiotics. Since dental researchers at NJDS have been involved with the study of infectious disease for many years, it was natural for us to participate in university-wide, state, and national efforts.

— DANIEL H. FINE, DMD, Professor and Chair, Department of Oral Biology

R E S E A R C H



Although research is accepted as a fundamental mission of dental education, many dental schools are only minimally involved in research. At New Jersey Dental School, we train highly competent scientists who will make significant advances in our basic understanding of oral infectious diseases.



One of the major targets of research, for both New Jersey Dental School and the University, is health disparities among the populations in the United States. In fact, Daniel H. Fine, DMD, Professor

and Chair of the Oral Biology Department, who has spent the last 25 years studying the organism *Actinobacillus actinomycetemcomitans* (*Aa*), has made it apparent that the presence of *Aa* or specific microbial complexes could predict the initiation and progression of Localized Aggressive Periodontitis (LAP). A disease that primarily affects African-American and Hispanic children, LAP can lead to premature loss of front teeth and molars, affecting the children's appearance, self-esteem, nutrition, and ability to succeed in life.

Dr. Fine's newest area of research is on microbial markers for periodontal disease in children. In 2006, more than 1,000 Newark school children ages 10-16 were examined for both caries and periodontal disease. All children were screened for the presence of *Aa*. The hypothesis was that a large percent of those children in whose mouths *Aa* was found would be susceptible to periodontal bone loss over a two-year period. In addition,

the study aimed to analyze the relationship of 40 other oral bacteria to determine whether pathogenic complexes are related to disease initiation. The long-term goal of this proposal is to use the data to design strategies for early detection of children at risk for LAP so that cost effective prevention can be developed to reduce the burden of disease in this underserved population.

The next phase of Dr. Fine's study of Newark school children involves following those students who exhibited the presence of the *Aa* bacteria. These students will be recalled every six months for a period of three years. So far, 36 of those who showed *Aa* bacteria have been recalled, and seven of them have developed periodontitis. None of those without *Aa* have developed the disease. The unique feature of this research study is that when disease is detected, treatment at no cost is offered to the students.

This study is one of the first, and according to Dr. Fine, "represents the most extensive periodontal screening and treatment of its kind." Dr. Fine's team of specialists — Kenneth Markowitz, DDS, chief dental examiner, Karen Fairlie, MPH, study coordinator, Javier Ferrandiz, Program Coordinator, David Furgang, MS, microbiologist, research data manager, and Cibele Nasri-Heir, dental assistant — are scientists who are taking dental research from the bench to the patient.

Scott Kachlany, PhD, Assistant Professor of Oral Biology (NJDS) and Microbiology and Molecular Genetics (NJMS) who was nominated for a PEW award in 2005, is pursuing a line of research that may lead to ways of destroying malignant white cells. He is working on a bacterial toxin produced by *Aa* that has high specificity for certain types of white blood cells. Using whole blood, Dr. Kachlany and his research team found that this toxin, called leukotoxin, appears to preferentially kill myeloid cells, such as neutrophils and monocytes. This activity and specificity suggest that leukotoxin might be an effective therapeutic agent for several forms of leukemia such as acute myelogenous leukemia and chronic myelogenous leukemia. The research team has also crafted methods to purify large amounts of active toxin from bacteria. Currently, Dr. Kachlany is testing the effectiveness

cystic fibrosis pneumonia, infective endocarditis, and infections caused by various medical devices such as intravenous catheters, artificial joints and contact lenses. Little is known about the detachment of bacteria from biofilms, a process necessary for the spread of infections to new sites. Biofilm detachment represents an important area of future research that is expected to lead to novel strategies for treating biofilm infections.

Narayanan Ramasubbu, PhD, Associate Professor in the Department of Oral Biology, has received two National Institutes of Health grants, one to study salivary amylase and its effect on caries. His second grant relates to studies of dispersin B, an enzyme produced by *Aa* that reduces biofilms produced by several microorganisms. The gram-negative oral bacterium *Aa* has been implicated

Gill Diamond, PhD, received additional grant funds from the NIH and Polymedix, Inc. for his current research focused on the role played by antimicrobial peptides in protecting against bacterial infections. One recently submitted manuscript demonstrated that vitamin D can increase the ability of the airway to secrete an antibacterial peptide, and in turn increase the antibiotic activity of this tissue. Dr. Diamond says, "Our hope is that we can use these results to add to the present therapies for cystic fibrosis." His lab is also using mice to study the immune response to bacterial infections in the mouth. This research can help us to understand the natural ways humans protect themselves from oral infectious diseases such as caries and periodontitis. Most important, this research has demonstrated that a molecule whose structure was based on an antimicrobial peptide exhibits



“OUR RECENT STUDIES OF THE ORGANISM *AA* SHOULD PROVIDE US WITH KNOWLEDGE TO IDENTIFY MARKERS REQUIRED TO DEVELOP A SALIVARY-BASED DIAGNOSTIC TEST THAT WILL HELP US IN PREVENTION. IT WILL PUT US MILES AHEAD ON THE ROAD TO REDUCING ORAL HEALTH DISPARITIES IN OUR NATION’S AFRICAN AMERICAN, HISPANIC, AND OTHER UNDERSERVED POPULATIONS.” — Daniel H. Fine, DMD

of leukotoxin in a mouse model for human leukemia in preclinical trials. Dr. Kachlany’s collaborators include Drs. Roger Strair and Serena Wong, oncologists at The Cancer Institute of New Jersey (CINJ), and Dr. Debabrata Banerjee, an Associate Professor in the Departments of Medicine and Pharmacology at CINJ.

In 2006 Jeffrey B. Kaplan, PhD, continued working on his four-year NIH grant to study biofilm growth and detachment. Biofilms are responsible for more than 80 percent of bacterial infections in humans. Examples of diseases caused by biofilms include dental caries, periodontitis,

as the causative agent of localized juvenile periodontitis, a severe and rapid form of periodontal disease that affects 70,000 primarily African-Americans in the U.S. annually. *Aa* also causes several non-oral infections including bacteremias, brain abscesses and infective endocarditis. A striking feature of fresh clinical isolates of *Aa* is their ability to form extremely tenacious biofilms on surfaces such as glass, plastic and saliva-coated hydroxyapatite, a property that has been shown to be essential for virulence. Tight adherence to surfaces also makes *Aa* an excellent model for studying biofilm growth and detachment *in vitro*.

potent activity against oral bacterial pathogens, including those that are associated with caries and periodontal disease. The future promises to bring development of new therapies for oral infections.

Scott Diehl, PhD, directs the Center of Pharmacogenomics and Complex Disease Research, which has a mission to study the role of inherited genetic variation in disease risk and drug responses. His group is focusing on finding genes that increase risk of severe gum disease (periodontitis), and genes that cause serious drug side effects experienced by many patients suffering from severe pain. Using advanced laboratory and computer equipment

they analyze inherited genetic variation among humans and among different strains of laboratory animals, processing over 100,000 assays per day when operating their facility at full production capacity. A key component of the Center is their Laboratory Information Management System (LIMS) designed to track these assays as they are processed using robotic liquid handling systems. Staff at the Center have advanced expertise in bioinformatics, statistics and computer science. The Center is designed to enhance opportunities for developing new studies in all areas of health through collaborations with clinicians, epidemiologists and basic scientists interested in genetically based research approaches, including studies of animal models.

A recent *UMDNJ Research* magazine, which focused on aging in America, included a

increased lifespan in the face of rising rates of chronic diseases may impact the integrity of the oral cavity.

Two new faculty members of the Oral Biology Department are Associate Professor Vincent K. Tsiagbe, MS, PhD, and Assistant Professor Daniel E. Kadouri, MS, PhD.

Dr. Tsiagbe is President and Founder of the Board of Trustees of the Association of African Biomedical Scientists, Inc., an organization that fosters scientific development in Africa and provides opportunities for young developing biomedical scientists in North America. Dr. Tsiagbe is currently working on a Cancer Research Institute grant titled “Unraveling germinal center B Cell Lymphoma development.”



feature by Riva Touger-Decker, PhD, Director, Division of Nutrition in the Department of Diagnostic Sciences, on the relationship between diet/nutrition and oral health in the older adult. Inadequate diet and nutrition cause significant weight loss in the older adult. By 2020, 54.6 million people in the United States will be older than 65. (New Jersey's over-65 population is projected to grow to 2 million by 2025). A balanced diet with adequate energy and nutrients is essential for oral health and an intact, functional oral cavity and surrounding structures are critical for nutritional and oral health. While older adults are retaining their natural teeth longer in the 21st century than previously, their

Dr. Kadouri received a Master of Science degree in Virology and a PhD in Microbiology from the Hebrew University of Jerusalem and postdoctoral training in the Department of Microbiology and Immunology at Dartmouth Medical School. Dr. Kadouri's lab is experimenting with bacteria known to reduce biofilms in both medical and industrial settings in order to develop novel biological control strategies. ■



Oral health disparities and low oral health knowledge are problems facing our communities in Newark and throughout the state. Our department is dedicated to increasing the oral health status of individuals, old and young, in New Jersey.

—HILLARY BRODER, PhD, MEd, *Hunterdon Endowed Professor,
Acting Chair, Department of Community Health*

COMMUNITY SERVICE

The fourth “Give Kids a Smile” (GKAS) program, sponsored by New Jersey Dental School and the New Jersey Dental Association, had the largest turnout ever in 2006. A surprise visit from several hundred additional Newark school children increased the total number served at NJDS to more than 850. Cavan M. Brunsten, DMD '79, statewide chair of Give Kids a Smile®, was on campus to see how things were going in the 12th Avenue Pavilion, and a reporter and editor flew in from Chicago to cover the event for the American Dental Association News. Richard Mahevich, DMD, Professor of Clinical Affairs, and Michael Conte, DMD, MPH, Associate Dean for Clinical Affairs, were co-coordinators of the event. The many volunteers included students, alumni, faculty and staff.

Along with volunteer dentists, 160 junior and senior dental students performed the “Give Kids A Smile” screenings under supervision of faculty, making referrals

when necessary. Having students play an integral role in the event is part of the School’s emphasis on service learning, according to Dean Cecile Feldman. “Once they graduate, our hope is that they are more willing to participate in these types of activities,” she adds.

Several senior students at NJDS already have an opportunity to spend 80 percent of their time in a community-based site as part of the school’s “Community Oriented Dental Education” (CODE) program. “CODE gets them embedded in a community and helps give them an idea of how to do volunteer work once they are in private practice, and enables them to consider career options like public health dentistry,” said Dr. Feldman, adding that surveys show that CODE alumni are more likely to perform charity work after graduation.

Elisa Velazquez, DMD, participated in the CODE program prior to her 1999 graduation from NJDS. She is now a pediatric dentist and a member of the New Jersey Dental Association. Dr. Velazquez closed her office for the day and drove an hour through the rain with two staff members to volunteer for



Our mission to promote oral health in New Jersey through education and delivery of services includes community service that strengthens communication and understanding between the community and the Dental School.





and 4. As part of the Special Olympics Special Smiles program, NJDS students, alumni, faculty and staff, along with dental hygiene students and staff from Bergen County Community College, provided dental screenings, mouth guards, and oral hygiene instruction. Faculty, students and staff of UMDNJ's School of Health Related Professions provided nutrition instruction and blood pressure screenings to the special athletes. In addition, Lawrence Dobrin, DMD '75, and Evan Spivack, DMD, provided continuing education for those in need of CE credits.

"While the weather was less than cooperative, it did not dampen the enthusiasm of the many volunteers who attended," explains James Delahanty, DMD '75, the Clinical Director of the Special Smiles program. "This

Filipino-American Community of Old Bridge (NJ) Health Fair in September. The students screened approximately 100 patients of all ages. Participants received toothbrushes and toothpaste donated by Colgate. Dr. Samant conducted many community service events all over New Jersey in 2006.

Rosa Chaviano-Moran, DMD '86, Assistant Professor in the Department of Community Health, performed dental screenings on more than 40 patients in four visits to Integrity House, a halfway house in Newark. Dr. Chaviano-Moran, also Acting Director of the Office of Multicultural Affairs and faculty advisor to the Hispanic Student Dental Association (HSDA), also brought students to the Coalition for Hispanic Healthcare Annual Health Fair in Plainfield, N.J. The event,



"Give Kids a Smile". "Unfortunately, dentistry gets put on the backburner for so many of these patients," said Dr. Velazquez between patients. "We're trying to instill in parents that the suffering they experienced [as children] can be prevented." There were no GKAS Day activities near Dr. Velazquez's practice in Ocean County, N.J., but that won't be the case next year. She is building a new office and plans to host a GKAS 2007 event.

The 2006 New Jersey Special Olympics Summer Games were held on the campus of the College of New Jersey the weekend of June 3

year the athletes visiting Special Smiles not only received a 'Happy Tooth' doll, but on Sunday, they had a chance to check out a medical field ambulance and have their picture taken with Captain Stephen McKenzie (an instructor in the SHRP Physician Assistant Program) and medical specialists from 'C' Company 'Medical' 250th Brigade Support Battalion of the NJ National Guard."

Asha Samant, DMD '81, advisor to the Indian Student Dental Association, and Sanjeev Satwah, president of ISDA, brought a group of the association's members to the

sponsored by The Coalition of Latino Doctors, screened more than 200 people.

Community Service Around the World

Shahid Aziz, MD, DMD, Assistant Professor of Oral and Maxillofacial Surgery, is well known for his cleft palate missions to Ecuador. The 2006 16-member team to Guayaquil, Ecuador, included eight members from New Jersey Dental School, including two dental students, Brooke Cammeyer and Elda Fisher from the Class of 2007. Approximately 50 patients were screened and

surgery was performed on 22 of them to correct cleft lip and palate deformities.

In 2006, Dr. Aziz added a trip to Bangladesh. The small medical team of nine that left New York in January for Kishergansh province in northeast Bangladesh included Dr. Aziz, Dr. Sam Rhee from the New Jersey Medical School Department of Plastic Surgery, and Fran Devonshire, RN, an oral surgery nurse. Sponsored by Healing the Children and Impact Foundation Bangladesh, they flew to the capital of Dhaka and then took a small amphibious plane to the “Jibon Tari” Floating Hospital, where they lived and worked for several days performing 31 cleft lip operations.

“Bangladesh was a totally different experience. I brought a small team. It was a quick

of an entire family’s isolation. As a child grows, the cleft grows as well; and the faces of beautiful children become seriously misshapen. Teeth grow willy-nilly, and speech and eating are often affected,” Dr. Aziz says.

In Bangladesh there is a huge need for cleft surgery — there are probably 150,000 people with clefts in a country of 150 million. There are only 10 surgeons in the country who repair cleft lips and palates, and being able to look forward to the return of these surgeons is an important milestone in itself for many families. Dr Aziz says: “These trips remind us of why we became doctors and we can also introduce our residents to the rewards of helping the larger global community.” New Jersey Dental School provides support for these trips.



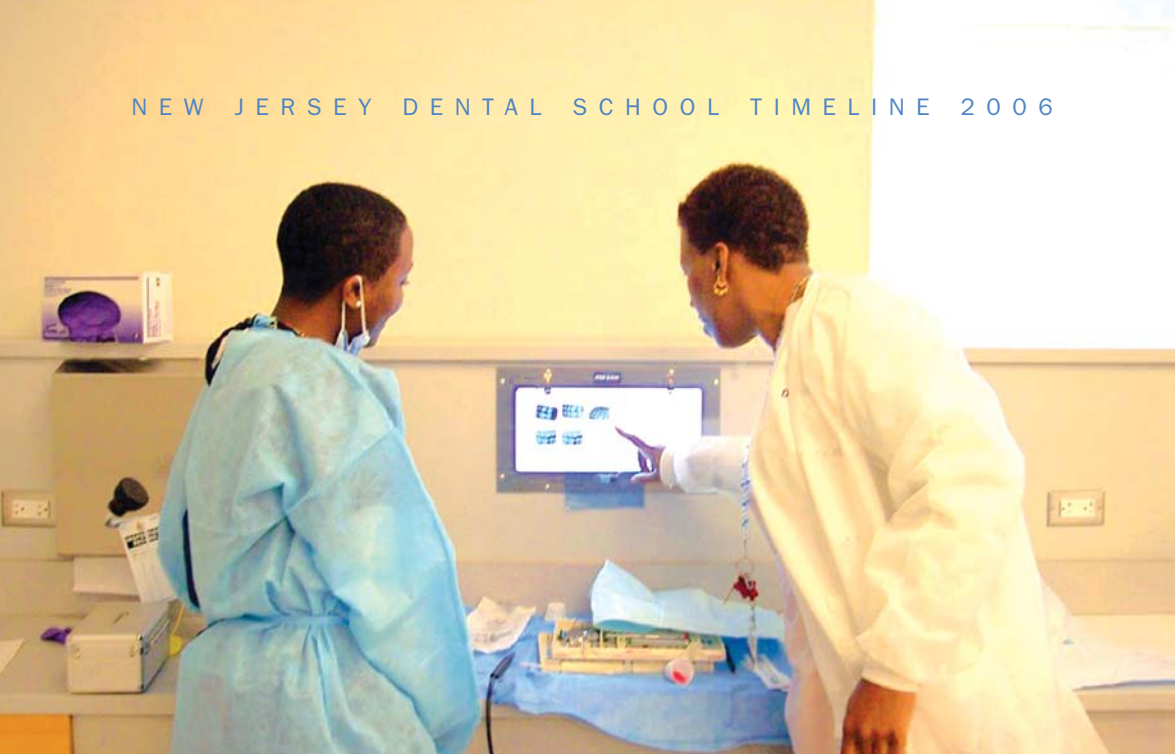
trip — two days of travel to Bangladesh — and in three days Dr. Rhee and I repaired 31 cleft lips. The real difference from Ecuador is that the average age of the patients we treated in Bangladesh was about 10 years. We ranged from a one-year-old to a 23-year-old with an unrepaired primary cleft lip. Families travel long distances — with sick children in tow — to get there. Bengalis are often too poor to afford basic medical care, so surgery to correct physiological abnormalities is way beyond their means. Cleft lips and palates frequently remain untreated until the teen years or later, becoming the source

It’s wonderful how many of our students enter Dental School with a history of giving that comes from their family histories, and how much they enjoy combining community outreach with their studies of dentistry to help our Newark neighbors.

— REBECCA REED, DMD
Assistant Professor, Department of Community Health

“Bangladesh also had a very personal aspect for me,” states Dr. Aziz. “My father — who passed when I was 16 — was from a small remote village in Bangladesh. He had planned to take me to Bangladesh when I was older, but never had the opportunity. So this was my first visit to Bangladesh and I had the chance to meet my extended family — aunts, uncles, cousins — for the first time.” ■





January

Match Day was on January 30. At this exciting reception, fourth-year students received the results of their applications for postgraduate positions.

February

George McLaughlin, DMD, Director of UMDNJ's Office of Minority Affairs, was the master of ceremonies at the February 15 American Heritage Day program sponsored by the NJDS Office of Multicultural Affairs and the Student National Dental Association. A special award was given by Dr. Elmo Randolph, President of the Commonwealth Dental Society, to his mother, Dr. Mabel Robinson, who was the first African-American woman dentist in the state.

Shahid R. Aziz, DMD, MD, Assistant Professor in the Department of Oral and Maxillofacial Surgery, served as team leader on the first "Cleft Palate Mission" at Hospital Del Ninos, Gayaquil, Ecuador from February 24 to March 4.

March

Faculty attended the 83rd Annual Session of the American Dental Education Association in March. Stephen Bruce, Dental

Care Coordinator in the Office for Clinical Affairs, was formally recognized for his service to the ADEA during the closing session of the House of Delegates.

On Wednesday, March 22, New Jersey Dental School hosted more than 30 vendors at its Annual Dr. Michael P. Balbo Dental Science Expo 2006. A team of judges made up of NJDS faculty members reviewed the research posters and student presentations of 18 predoctoral and 12 postgraduate students.

April

The Free Oral Cancer Screening on April 20 at New Jersey Dental School, sponsored by the Oral Cancer Consortium, the Essex County Cancer Coalition and NJDS, brought patients to the Dental School's 12th Avenue Pavilion. Students, faculty and volunteers explained the importance of oral cancer screening in the early detection of cancer. Tables in the waiting area displayed literature about oral cancer and other forms of cancer.

On April 24, faculty members of the Dental School's Department of Community Service presented at Caring for New Jersey's Multicultural Population: A Cultural Competency Summit in Princeton, NJ.



The NJDS Office of Multicultural Affairs hosted a multicultural fest on Friday, April 28 in the Dental School Courtyard.

At the New Jersey Dental School Alumni Association Scholarship reception on April 20, DAA awards, memorial scholarships and endowed scholarships were presented to students for exceptional performance and leadership.

May

On May 6, the Omega Omega Chapter-Omicron Kappa Upsilon, the National Honor Dental Society, held its Annual Awards Dinner at the Forest Hill Field Club in Bloomfield, NJ. New members were inducted and the Chapter President

presented the awards. Jeffrey Lane ('07) was this year's recipient of a \$10,000 scholarship from the OKU-Omega Omega Scholarship Foundation and the recipient of the Dr. William S. Kramer Award of Excellence. A Certificate of Academic Excellence was presented to Dana Kupfer ('09) and to Kevin Lehnnes ('08) for having attained the highest grade point averages in their respective classes.

At the Dental School convocation on Sunday, May 21, graduating students received their special awards. At the University Commencement ceremony the following week, Lawrence A. Tabak, DDS, PhD, Director of the National Institute of Dental and Craniofacial Research (NIDCR) at the National Institutes of Health received an honorary UMDNJ Doctor of Science degree. Director of

NIDCR since 2000, Dr. Tabak leads a team of approximately 400 scientists and staff with an annual budget of over \$380 million working in the areas of salivary diagnosis, immunology, head and neck cancers, pain and neurosensory research.

June

NJDS faculty and staff were on hand at the June 2-4 Special Olympics to provide the athletes with oral health screenings and information on oral hygiene and dental care. As part of NJDS continuing education, dentists received instruction in treating the disabled from members of the Special Care Treatment Center of the School's Department of Pediatric Dentistry.

At the 2006 NJDA Annual Convention, June 7-9 in Atlantic



City, Dean Feldman and Kim E. Fenesy, DMD, Associate Dean for Student Affairs, spoke on “Career Paths for the New Face of Dentistry”, and several faculty members taught courses. New Jersey Dental School students presented their posters this year in a table clinic competition with students from other area dental schools. Twenty-three summer research students participated and secured the top five places.

July

NJDS celebrated the opening of its new Center for Clinical Research with a reception sponsored by Colgate-Palmolive honoring Anthony R. Volpe, DDS '60, vice president of clinical dental research at Colgate, for his lifelong commitment to dentistry. The Center will eventually be developed into

what the New Jersey Dental School has proposed as a full-scale Oral Health Clinical Research Center of New Jersey (OHCRC-NJ) to provide a centralized location and support system for conducting state-of-the-art federally sponsored (NIH) clinical research and industry supported clinical trials.

On July 25, the Board of the American Dental Association in Chicago notified NJDS that our seven-year accreditation was confirmed.

August

Kim Fenesy, DMD, Associate Dean for Student Affairs, was master of ceremonies for the NJDS Class of 2010 White Coat Ceremony on August 23. Anthony R. Volpe, DDS, '60, welcomed the students with a memorable keynote address that had the audience of young students and their families at full attention. A reception followed the ceremony. This year's new class includes 21 students (nearly 25 percent) who are “graduates” of the Gateway Program sponsored by the Office of Student Affairs.

September

This year our Fall Fest was held on September 22, a warm, sunny day. Students, faculty and staff served as volunteers and everyone had an opportunity to share some time together, and enjoy lunch and games. A pumpkin decorating contest included some faculty look-alikes.

On Wednesday evening September 13, Dr. Cecile Feldman recognized those students who made the “Dean’s List” at the annual OKU Scholarship Reception. The Omega Omega Chapter of Omicron Kappa Upsilon, the Dental Scholarship Society, created a Dean’s List to recognize scholastic achievement by dental students at New Jersey Dental School. Dean Feldman presented each of the 75 students from the Classes of 2007, 2008 and 2009 with certificates for achieving a grade point average at or above 3.5.

October

The UMDNJ Newark Campus Latino Heritage Planning

Committee organized Hispanic Heritage Day on October 4. Speaking about the contributions of Latinos in the healthcare professions and industries was Samuel Delgado, Vice President, Community & Stakeholder Advocacy at Verizon. Maritza Acevedo-Hodavance and Rosa Chaviano-Moran, DMD, co-chaired the event.

Students from the NJDS Class of 2010, accompanied by faculty, visited six Newark elementary schools as part of the Preventive Dentistry Smile Makers curriculum of the Department of Community Health. Almost 2000 Newark elementary school students received oral health promotion education, homecare literature, and toothbrushes made available by a grant from Colgate.

Wednesday evening, October 11, marked the grand opening and dedication of the Delta Dental Educational Conference Center at New Jersey Dental School. The event, sponsored by Delta Dental and New Jersey Dental School, included the unveiling of the plaque honoring Delta Dental’s Board and remarks from Dean Feldman, Dr. Gerald Sydell, CEO of Delta Dental, and others.

November

The annual “Coming Together” dinner of New Jersey Dental

School was held on Friday, November 17. The event honored alumni Dr. Nancy Villa-Brunsdan and Dr. Cavan Brunsdan’s donation and their strong commitment to NJDS.

NJDS faculty made presentations at the Greater NY Dental Meeting in New York City on November 24-29. This is the largest dental meeting in the United States.

December

New Jersey Dental School’s Department of Oral and Maxillofacial Surgery received its ADA Accreditation without any recommendations or citations.

On December 19, a field advocacy workshop, sponsored by New Jersey Dental School, the American Association for Dental Research, and the American Dental Education Association was held at the Delta Dental Conference Center. Speakers included Dr. Lawrence Tabak, Director, National Institute of Dental and Craniofacial Research; Jack E. Bresch, ADEA Associate Executive Director and Director of the Center for Public Policy and Advocacy; Myla Moss, ADEA Director of Congressional Relations and Regulatory Affairs; Dr. Richard W. Valachovic, ADEA Executive Director; and Jim Schulz, Director of Government Affairs, New Jersey Dental Association.

Alumni, faculty, and friends provided more than \$1 million in support to New Jersey Dental School during calendar year 2006. Included within this amount were payments on pledges and new gifts to *Giving New Jersey Something to Smile About* – The Campaign for New Jersey Dental School. As of December 30, the campaign had raised more than \$5 million for projects underway in the new Oral Health Pavilion and ongoing renovations to the Bergen Street Pavilion. The campaign total includes over \$620,000 in commitments from NJDS faculty and staff.

A highlight of the year was the October 11 dedication of the Delta Dental Education and Conference Center, made possible through a generous \$2 million gift from Delta Dental Plan of New Jersey, Inc. Dr. Gerald Sydell, chairman of the Board, Delta Dental Plan of New Jersey, Inc. joined Dean Cecile Feldman in unveiling a recognition plaque in the grand lobby of the Center to mark the occasion. The Center, which officially opened in June, has already hosted hundreds of visitors and immediately became the most requested conference facility on the Newark campus. The Center also provided the perfect home to a unique dental figurine collection donated by Drs. Mimi (DDS, 1963) and Alan (DDS, 1961) Vella.

A \$100,000 gift from alumnus and restorative dentistry faculty member Dr. Howard Drew (DMD, 1982) and his wife, Ina, helped kick off fundraising for a new implant center planned for the C level of the Oral Health Pavilion. Dr. Drew recently joined the Campaign Leadership committee, chaired by Dr. Anthony Volpe (DDS, 1960), working to bring other supporters to the cause.

A gift from the CVS Foundation is the latest support for the special needs dentistry program. The gift will help support the move of the special needs clinic to the Brunsdens-Villa Pediatric Dentistry clinic. Planning for the joint clinic received a major boost with last year's \$1 million gift from Dr. Cavan M. Brunsdens (DMD, 1979) and Dr. Nancy L. Brunsdens-Villa (DMD, 1989) and a \$300,000 commitment from the Healthcare Foundation of New Jersey. The Brunsdens have also joined the NJDS Campaign Leadership committee to help complete funding for this multi-million dollar expansion of the pediatrics and special care dentistry programs.

NJDS benefited from more than \$100,000 in alumni giving to the NJDS Annual Fund, directed by NJDS AA President Dr. Vincent J. Castellano (DMD, 1978). Included in that amount is more than \$20,000 raised for the NJDS AA Endowed Scholarship Fund by the annual *Coming Together Dinner*, chaired by Dr. Cosmo DeSteno (DMD, 1969) and Dr. Joseph Battaglia (DMD, 1979) held November 17th at Highlawn Pavilion in West Orange, N.J.

Finally, noteworthy gifts-in-kind included the gift to the Restorative Dentistry program of a Cerec milling unit and two air abrasion units made possible by Drs. Anthony Caramico and Douglas Veenstra of Hi Tech Family Dentistry in Midland Park, N.J.

The heartfelt thanks of the Foundation of UMDNJ are extended on behalf of the NJDS students, parents, faculty, staff, and the patients we serve, all of whom will benefit greatly from the generous gifts iterated below:

GIVING NEW JERSEY SOMETHING TO SMILE ABOUT CAPITAL CAMPAIGN

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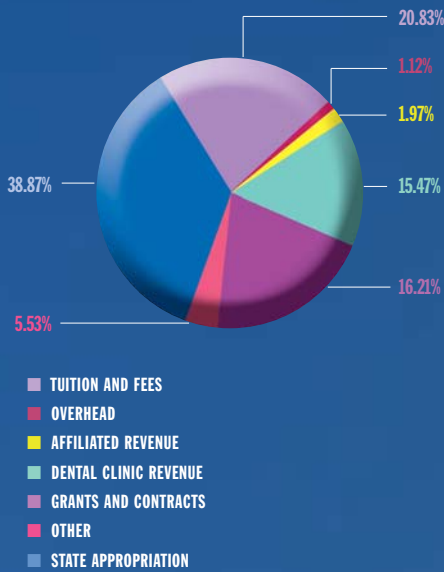
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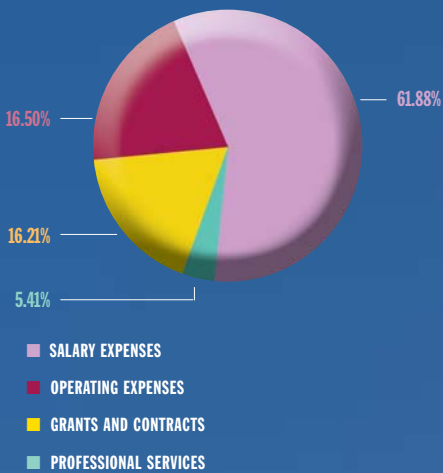
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 Rosa M. Chaviano-Moran, D.M.D. '86
 John K. Chen, D.M.D. '73
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 Maano Milles, D.M.D.
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 Hugh D. Parker, D.M.D. '83
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 Sally-Jo Placa, D.M.D. '89
 Pisano & Procopio, PA.
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 Saw-Ean Quah, D.M.D. '89
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 Haigh H. Rickerby, D.M.D. '87
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 Hua Zhu, D.M.D. '04

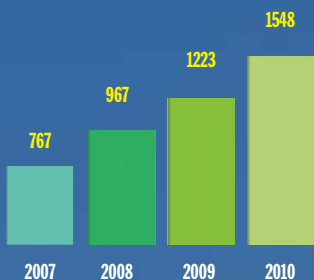
FY 2006 INCOME SUMMARY
TOTAL: \$42,695,000



FY 2006 EXPENSE SUMMARY
TOTAL: \$42,695,000



APPLICATIONS



NEW JERSEY DENTAL SCHOOL FAST FACTS
2005 - 2006

NJDS Statewide Network for Community Service clinics:

- University Dental Center at Galloway, NJ
- University Dental Center at Matheny, Peapack, NJ
- University Dental Center at Somerdale Medical and Education Center, Somerdale, NJ
- University John H. Cronin Dental Center, Northfield, NJ

NJDS Centers:

- Center for Dental and Oral Health
- Center for Oral Infectious Diseases
- Center of Pharmacogenomics & Complex Disease Research
- Center for Treatment of the Handicapped
- Northeastern Minority Oral Health Research Center
- University Craniofacial Center of New Jersey

Faculty: Full-time 90
Part-time 110
Volunteer 148

Enrollment: Predoctoral 337
Postgraduate 67

Number of Applicants (Class of 2011): 1915

Entering Class of 2010: 96

Entering GPA: 3.47

2005 degrees: 80 Total, 52% women

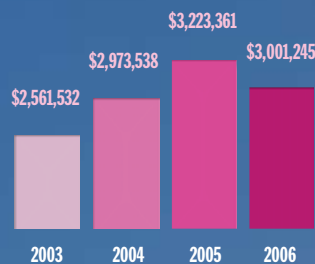
Programs:

- | | |
|-------------------------------------|--------------------------------|
| DMD | Oral Medicine |
| Developmental Disability Fellowship | Orofacial Pain Fellowship |
| Endodontics | Oral and Maxillofacial Surgery |
| Geriatric Dental Fellowship | Orthodontics |
| General Practice Residency | Pediatric Dentistry |
| Infectious Disease Fellowship | Periodontics |
| Master of Science in Dentistry | PhD in Oral Biology |
| Master of Dental Science | Prosthodontics |

List of BS/DMD affiliates:

- Caldwell College
- Fairleigh Dickinson University
- Montclair State University
- New Jersey City University
- New Jersey Institute of Technology
- Ramapo College
- Rowan University
- Rutgers University
- Saint Peter's College
- Stevens Institute of Technology

RESEARCH AWARDS



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