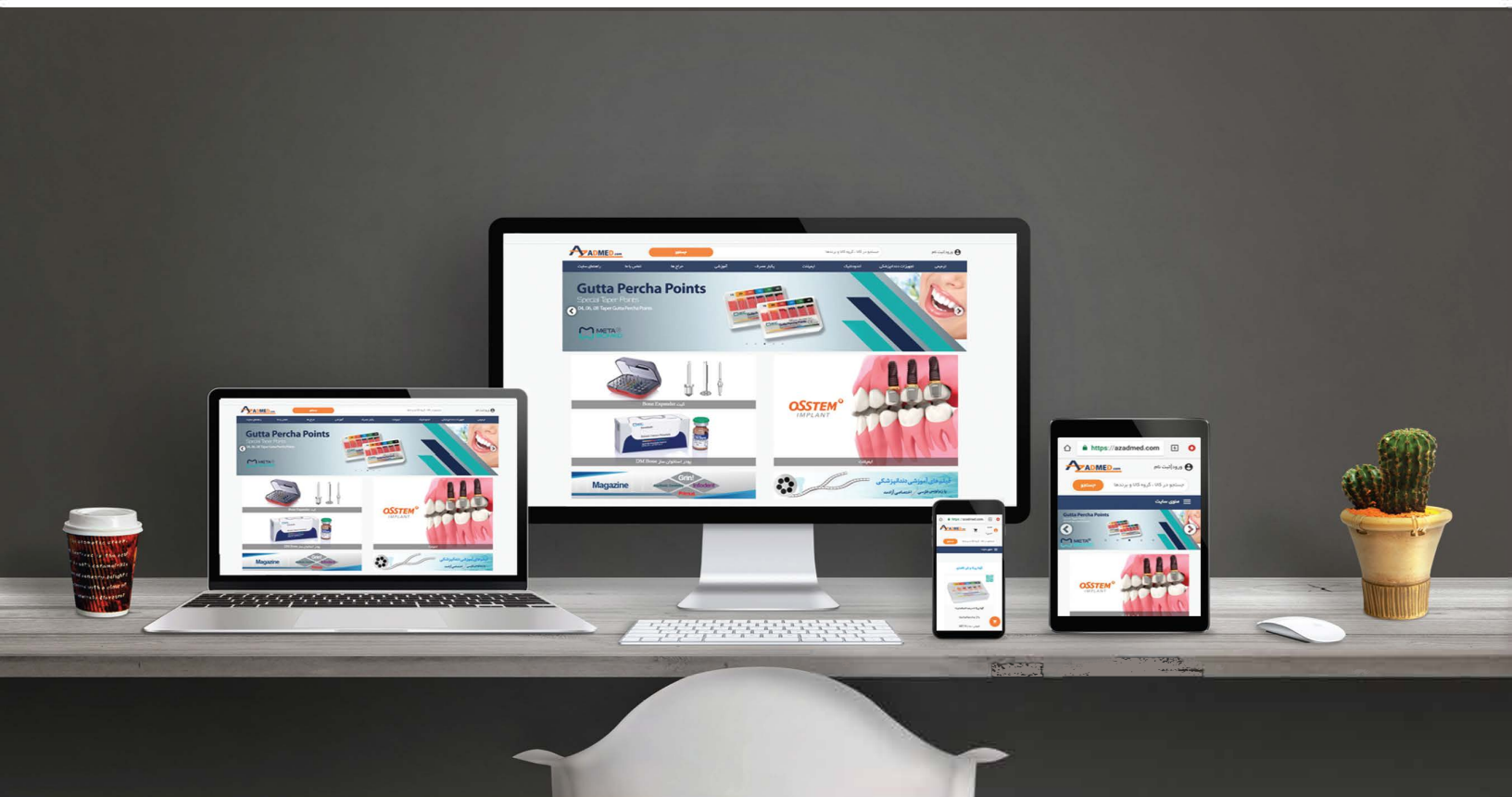




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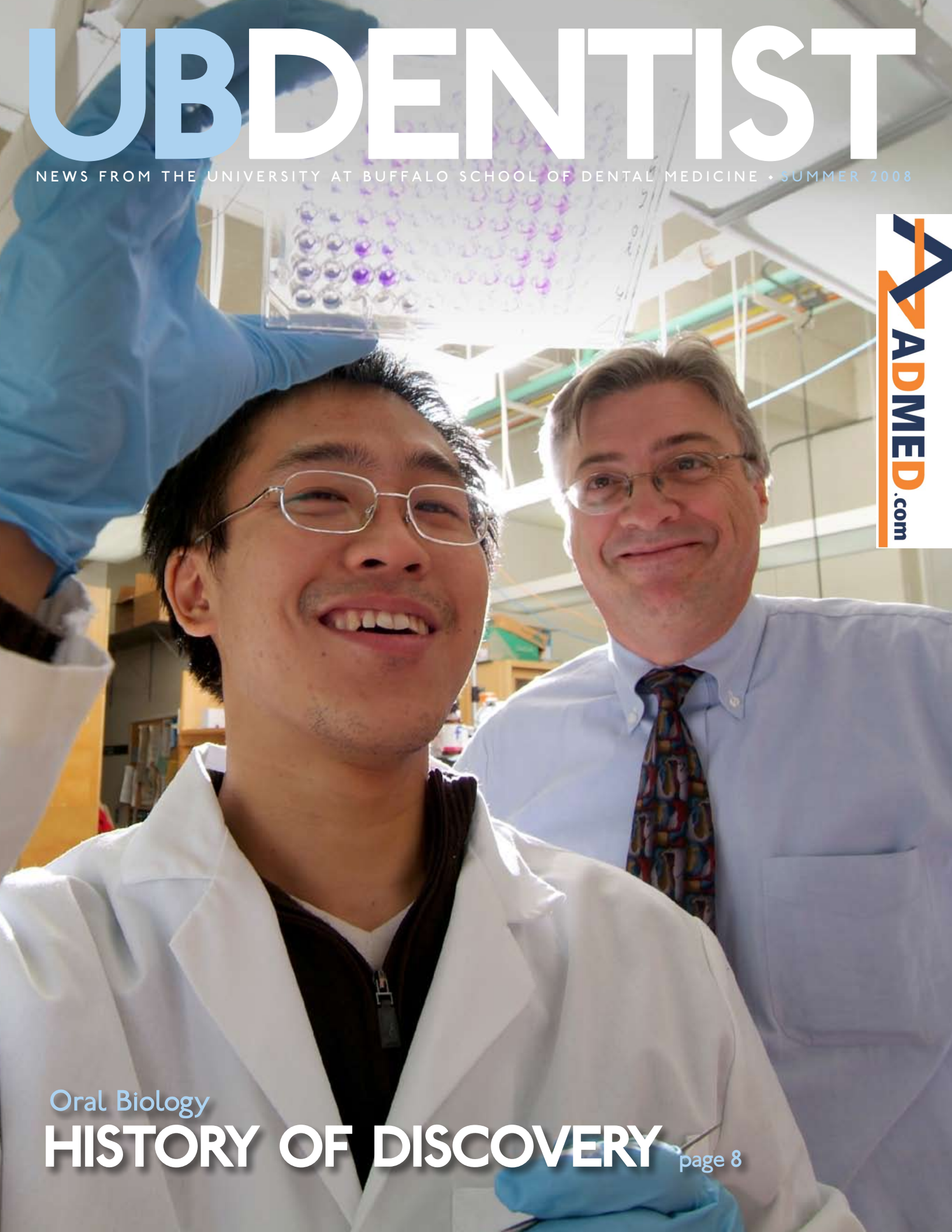
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UB DENTIST

NEWS FROM THE UNIVERSITY AT BUFFALO SCHOOL OF DENTAL MEDICINE • SUMMER 2008


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Oral Biology

HISTORY OF DISCOVERY

page 8

In the most recent issue of UB Dentist, I discussed the curriculum review and revision process initiated by the dental school. In this issue, I would like to highlight one potential curricular change—adopting a distributed clinical education model—that, in my view, would yield real benefits to our students and to our work as dental educators, to the community, and to the profession.

Moving clinical education into community settings can make a contribution to meeting the needs of the enormously large population in our midst without access to oral care or insurance coverage. The underserved—more than 100 million in all nationally—are mostly children and the elderly, the most vulnerable among us.

Dental schools are already a safety net for the underserved by expanding access to high-quality, affordable oral health care. This enhanced access is a collateral benefit of the investment made in clinical education programs. But on-campus clinics have inherent limitations in patient care capacity.

The distributed clinical education and patient care model puts students in community-based sites, where they are two to three times more productive than in a campus clinic. At service learning sites, auxiliary personnel, who are largely unavailable in intramural dental school clinics, significantly enhance clinical efficiency. This improves clinical education through increased clinical experience while expanding access to care and improving the quality of oral health care for underserved populations.

Service learning experiences nurture an appreciation of the needs of underserved communities, prepare students to be more confident in their ability to provide community-based care and foster a lifetime commitment to social service among future generations of dentists. In addition, new community-based clinical education and patient care models can facilitate collaborations between dental schools and practicing dentists aimed at reducing unsustainable oral health care disparities.

Collectively, we can motivate our profession, our community and government leaders and our schools to collaborate in establishing a community-based system designed specifically to enhance access to care in this country. We can provide students an enriched, high quality educational experience and serve the nation's patients more effectively by engaging the whole profession in solving the greatest oral health problem of our age.



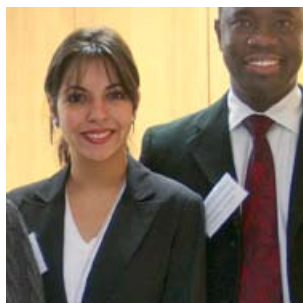
Richard N. Buchanan, DMD

from the DEAN



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UBDENTIST

News from the University at Buffalo
School of Dental Medicine

UB Dentist is published quarterly by the School of Dental Medicine; produced by the Office of University Communications, Division of External Affairs. Summer 2008. 08-DEN-003

www.sdm.buffalo.edu

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PUBLICATION OF UB DENTIST IS MADE POSSIBLE BY THE GENEROUS SUPPORT OF THE UNIVERSITY AT BUFFALO DENTAL ALUMNI ASSOCIATION.

NewsBriefs



New York State Senator William Stachowski, right, chats with Stephen Colombo, director of clinical operations for the School of Dental Medicine.

School of Dental Medicine hosts legislators

The School of Dental Medicine, the UB Dental Alumni Association and the Eighth District Dental Society jointly hosted Western New York legislators for a tour and reception at the school on May 30.

State senators Mary Lou Rath and William Stachowski, and Assemblymember Jack Quinn attended as did staff members from the offices of Representative Tom Reynolds and Assemblymembers Crystal Peoples, Sam Hoyt and Dennis Gabryszak.

After remarks by alumni association president Joshua Grant, David L. Dunn, UB vice president for health sciences, and Richard Buchanan, dean of the dental school, legislators toured the school and were briefed on the variety and scope of programs and services UB provides in the community and on plans to modernize and expand the dental school's clinical facilities.

The main message to the legislators concerned the need to support the school's role as the region's largest provider of oral health care to Medicaid recipients and those with no insurance, and to such specialized vulnerable groups as children, HIV/AIDS

patients, the homeless, the elderly and the developmentally disabled. The school serves some 75,000 active patients, and Medicaid recipients make up 50 percent of that number.

Legislators heard that while the school functions as the region's oral health care safety net, this critical community benefit is jeopardized because the cost of providing uncompensated care—the school wrote off \$5.4 million in uncompensated costs in the past year—jeopardizes the school's ability to make necessary upgrades in clinic facilities without adequate state support.

2 A cavalcade of faculty honors

Joseph J. Zambon, '74, Perio '83, PhD '84, was named to the rank of SUNY Distinguished Teaching Professor. Zambon,



professor of periodontology and oral biology in the School of Dental Medicine, was one of 22 faculty members from across SUNY who were appointed to the system's highest faculty rank by the board of trustees at its May 14 meeting. The rank of distinguished professor is an order above full professorship. Twice named Dental Educator of the Year in the UB dental school, Zambon

is associate dean for academic affairs, a member and former chair of the school's curriculum committee and a co-director of its Electronic Curriculum Project, which has completely digitized the school's educational program.

Robert J. Genco, '63, SUNY Distinguished Professor in the Department of Oral Biology and UB vice provost and director of the



Office of Science, Technology Transfer and Economic Outreach, received a Lifetime Achievement Award, given to faculty members who have served SUNY for at least 25 years, are greatly respected by students for their efforts in and out of the classroom, and respected by their peers for extraordinary achievement and leadership in their fields.

Robert E. Cohen, '81, MS '82, Perio '85, PhD '87,



received the 2008 Chancellor's Award for Excellence in Teaching. This award honors those who consistently demonstrate superb teaching at the undergraduate, graduate or professional level. Cohen is a nationally recognized expert on salivary immunochemistry and is the director of the Advanced Education Program in Periodontics.



Frank Scannapieco, Perio '89, PhD '91, chair of the Department of Oral Biology, received the 2008 Chancellor's Award for Excellence in Scholarship and Creative Activities. The award recognizes the



work of those who engage actively in scholarly and creative pursuits beyond their teaching responsibilities. An internationally renowned authority on the mechanisms for dental plaque formation, Scannapieco is a leader in translational research whose achievements are relevant in the laboratory, the classroom and the clinic.

one of the highest honors bestowed by the IADR. He was recognized for "outstanding and sustained peer-reviewed research that has contributed to our knowledge of the mechanisms, efficacy or safety of drugs used in dentistry."

3 Minority Dental Faculty Development Program

Anne E. Meyer, associate dean of research, was named a fellow in biomaterials science and engineering by the International Union of Societies for Biomaterials Science and Engineering (IUSBSE) at the 2008 World Biomaterials Congress in Amsterdam. Fellows are recognized for professional excellence and achievements in the field of biomaterials science and engineering, and are announced at the World Biomaterials Congress, which is held every four years.



Stuart Fischman, Oral Path '66, professor emeritus of oral diagnostic sciences, received the 2008 Pharmacology/Therapeutics/Toxicology Research Award from the International Association for Dental Research (IADR) at its 86th General Session and Exhibition in Toronto in July. The award is

Maria Perez, DDS, a second-year master's student in oral diagnostic sciences, met Yoly M. Gonzalez-Stucker, '05, MS '95, an assistant professor in the department, through the Minority Dental Faculty Development Program (MDFD), a joint initiative of the American Dental Education Association and the W.K. Kellogg Foundation to help minority dental students become faculty members in their chosen field.

The program, which held its first New York symposium at UB this April, addresses the shortage of underrepresented minorities on dental school faculties, and the increasing number of underserved minority dental patients, by helping American dental schools better represent those underserved populations. Program participants include UB, Columbia University, New York University, Stony Brook University and the University of Rochester.



The BOCA report

Buffalo Outreach and Community Assistance (BOCA), a student-managed outreach organization of the School of Dental Medicine, continues to provide free dental care to underserved individuals both in the United States and abroad. So far in 2008, 53 dental students, supervised by faculty, have provided restorative, periodontal and oral surgical treatment to more than 1,500 people in Ghana, the Dominican Republic, Mexico, and the Appalachia region of the U.S. BOCA is going to Guatemala in August.

Students of BOCA absorb the cost of attending an outreach, and thank all those who have assisted them with donations of instruments, supplies, time and funds.

Above: Carlos Munoz, chair of the Department of Restorative Dentistry, triages a patient in Puerto Plata, Dominican Republic, in June 2008.



(From left) Alfredo Aguirre, professor and program director of oral diagnostic sciences (ODS) and Yoly M. Gonzalez-Stucker, DDS, MS, assistant professor of ODS, are faculty mentors to graduate students and MDFD awardees Maria Perez, DDS, and Germaine Jean-Charles, DDS.

MDFD faculty mentors act as student advocates, monitor students' academic progress and ensure that they receive the advanced clinical training and rigorous research experience required for today's demanding faculty positions. Student awardees also receive tuition and job placement support.

April's symposium was an intense two days of networking, thesis presentations and joint panel discussions on a variety of topics, from student research to a presentation on the School of Dental Medicine's mentorship program with the Buffalo Public Schools. Perez presented a paper on the effects of low-laser therapy on myofascial pain, based on research she and Gonzalez conducted at UB's Temporomandibular Disorders Laboratory.

4 New faculty appointments

Guoqiang Guan has joined the Department of Orthodontics as an assistant professor. Guan received a DDS in 1988 from Peking University, a PhD and Certificate in Orthodontics from Okayama University in 1998, and a Certificate in Orthodontics from the University at Buffalo in 2008. Guan served as a senior research associate in biomedical sciences at Baylor College of Dentistry in Dallas, Texas, from 2002 to 2006. He was also research assistant professor and clinical instructor in orthodontics at Okayama University Dental School for two years and assistant professor in orthodontics at Peking University for five years. Guan became an American Diplomat of Orthodontics in 2008. He has research interests in stem cells and oral craniofacial repair, and estrogenic regulation of inflammation related to temporomandibular joint dysfunction.



Celine Tan

Carole Pantera increased her commitment to the School of Dental Medicine to a full-time faculty appointment as clinical associate professor in the Department of Periodontics and



Endodontics, starting in April 2008. Pantera has served as a faculty member at UB since 1991, specializing in endodontics. She received a DDS from UB in 1988 and an MS in oral biology and Certificate in Endodontics from the Medical College of Georgia in 1991. Pantera has been active in private practice and professional continuing education. Her new responsibilities include coordination of the DDS education curriculum in endodontics.

Patrick Anders has increased his commitment to the School of Dental



Medicine to a full-time faculty appointment as assistant professor in the Department of Oral Diagnostic Sciences. Anders received his DDS from the University at Buffalo in 1986 and a master of public health from the University at Albany in 2006. He completed a general practice residency at Buffalo General Hospital and UB in 1987, serving as senior resident in 1988. He began teaching at UB in 1997, focusing in oral medicine and patient evaluation, diagnosis and management especially of the medically complex patient. Anders has served on the task force for special dentistry of the NYS Office of Mental Retardation and Developmental Disabilities.

2008 STUDENT AWARDS

Academy of Dentistry for Persons with Disabilities Award

Laura B. Holena

Academy of General Dentistry Award

Ryan Matthew Olbrys

Academy of Operative Dentistry Award

Allan Baldawi

Alpha Omega Fraternity Award

Renee Lynn Roland

American Academy of Dental Practice Administration Award

Lindsey Stein

American Academy of Esthetic Dentistry Award

Callie Gayle Davis

American Academy of Gold Foil Operators Award

Nicholas Eugene Emery

American Academy of Implant Dentistry Award

Allan Baldawi

American Academy of Oral and Maxillofacial Pathology Award

Michael Robert Markiewicz

American Academy of Oral and Maxillofacial Radiology Award

Samira Marie Toloue

American Academy of Oral Medicine Award

Rebecca Kristen Szymczak Evans

American Academy of Orofacial Pain Award

Don P. Evans

American Academy of Osseointegration Award

Kirsten Knauss

American Academy of Pediatric Dentistry Predoctoral Student Award

Michelle Elizabeth Kuntz

American Academy of Periodontology Award

Renee Lynn Roland

American Association of Endodontists Award

Peter Moses

American Association of Oral Biologists Award

Joseph Churchill

American Association of Oral and Maxillofacial Surgeons Award

Sarah Day

American Association of Oral and Maxillofacial Surgeons Implant Award

Samira Marie Toloue

American Association of Orthodontists Award

David Majeroni

American Association of Public Health Dentistry Award

Laura B. Holena

American College of Dentists Award

Sarah Day

American College of Prosthodontists Award

Laura Ottavia Frangella

American Dental Society of Anesthesiology Award

Kirsten Knauss

American Student Dental Association Award of Excellence

Kirsten Knauss

Barrett Foundation Award

Renee Lynn Roland

Eleanor Bushee Award

Lisa Maria DeLucia

Dr. Samuel A. Caccamise Award

Sarah Elizabeth Day

James Collard Memorial Award

Lisa Marie DeLucia

Delta Dental Student Leadership Awards

Kyra Demetria Chadbourne

Sarah Day

Peter K. Gurr

Kirsten Knauss

Delta Sigma Delta Award

Paul Markel

Dental Alumni Award

Jennifer Jane Long

Dentsply Merit Award

Yu Ye Zhou

Erie County Dental Society Chester A. Glor Award

Renee Lynn Roland

The Pierre Fauchard Academy Award

Paul Markel

Fonzi Dental Study Club, Anthony S. Gugino Humanitarian Award

James N. Roland

Victor A. Fumia Award

First Place: **Kyra Demetria Chadbourne**

Second Place: **Hyeshik Lee**

Hanau Prosthodontics Award

Jin Kim

International College of Dentists Award

Jacob Merryman

International Congress of Oral Implantologists Award

Qing Lan

Edwin C. Jauch Award

Sarah Elizabeth Day

Donald Kozlowski Memorial Award

Keith Stevener

Robert B. Levine Award

Nicholas Eugene Emery

NYSSOMS Oral Surgery Award

Emily W. Peters

The Northeastern Society of Periodontists Award

Lindsey Stein

Omicron Kappa Upsilon Award

Sarah Day

Lisa Marie DeLucia

Jin Kim

Kirsten Knauss

Edmund L. Markey, III

Peter Moses

Renee Lynn Roland

Lindsey Stein

Yvonne Tsay

John Vorrasi

Omicron Kappa Upsilon Research Award

Michael Robert Markiewicz

Pediatric and Community Dentistry Department Award

Joseph Churchill

Edmund L. Markey, III

Richard A. Powell Award

Peter Moses

Quintessence Awards

Research Achievement:

Renee Lynn Roland

Restorative Dentistry:

Kyra Demetria Chadbourne

Periodontics:

Kirsten Knauss

Lester Schatz Memorial Award

Lisa Marie DeLucia

George B. Snow Awards

Complete Prosthesis

First Place: **Paul Markel**

Second Place: **Timothy J. DeRuyter**

Fixed Prosthesis

First Place: **Sarah Elizabeth Day**

Second Place: **Kyra Demetria Chadbourne**

Chadbourne

The Harvey D. Sprowl Award

Rebecca Kristen Szymczak Evans



David E. Juach, '68, and Richard Connors, '64, judge student work.



PHOTO: Rose Mattrey

Welcome '08s

Allan Baldawi
Private Practice
San Diego, California

David Bluestone
Private Practice
Shillington, Pennsylvania

Devon R. Call
Private Practice
El Paso, Texas

Christopher William Calnon
General Practice Residency
University of Rochester
Strong Memorial Hospital
Rochester, New York

David Caryl
General Practice Residency
St. Joseph's Hospital Health
Center
Syracuse, New York

Kyra Demetria Chadbourne
Advanced Education General
Dentistry
University at Buffalo
Buffalo, New York

Jin Young S. Chung
Advanced Education in General
Dentistry
University at Buffalo
Buffalo, New York

Callie Gayle Davis
General Practice Residency
Erie County Medical Center
Buffalo, New York

Sarah Elizabeth Day
Advanced Education in General
Dentistry
Veterans Administration Western
New York Healthcare System
Buffalo, New York

Lisa Marie DeLucia
Pediatric Dentistry
Harvard School of Dental
Medicine
Children's Hospital Boston
Boston, Massachusetts

Timothy J. DeRuyter
United States Air Force
Seymour Johnson Air Force Base,
North Carolina

Charles Anthony Dibble
General Practice Residency
Erie County Medical Center
Buffalo, New York

Kristopher Doersam
Private Practice Associateship
Williamsport, Pennsylvania

David Michael Dow
Advanced Education in General
Dentistry
United States Naval Medical
Hospital
United States Navy

Nicholas Eugene Emery
Advanced Education in General
Dentistry
Veterans Administration Western
New York Healthcare System
Buffalo, New York

Don P. Evans
General Practice Residency
St. Clare's Hospital
Schenectady, New York

Rebecca Kristen Szymczak Evans
General Practice Residency
St. Clare's Hospital
Schenectady, New York

Valentina Tereza Fleece
General Practice Residency
Erie County Medical Center
Buffalo, New York

Laura Ottavia Frangella
General Practice Residency
Nassau University Medical Ctr.
East Meadow, New York

Kenneth Vincent Gerace
Advanced Education in General
Dentistry

**Veterans Administration Medical
Center**
Montrose, New York

Ronnie Anthony Guidice
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Woodhull Medical & Mental
Health Center
Brooklyn, New York

Peter K. Gurr
Private Practice Associateship
Ocean Dental
El Paso, Texas

Jason David Henderson
Advanced Education in General
Dentistry
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Eastman Dental Center
Rochester, New York

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General Practice Residency
Veterans Administration Medical
Center
Wilkes-Barre, Pennsylvania

Keli Rose Hollis
General Practice Residency
St. Joseph's Hospital Health
Center
Syracuse, New York

Ji Won Kang
General Practice Residency
Veterans Administration Medical
Center
Dayton, Ohio

Farah Khan
General Practice Residency
Coler Goldwater Specialty
Hospital
Roosevelt Island, New York

Jin Kim
General Practice Residency
Cambridge Health Alliance
Harvard School of Dental
Medicine
Boston, Massachusetts

Daniel C. Kingsford
Private Practice
Denver, Colorado

Kirsten Knauss
Advanced Education in General
Dentistry
Veterans Administration Western
New York Healthcare System
Buffalo, New York

Michelle Elizabeth Kuntz
Pediatric Dentistry Postgraduate
Program
University at Buffalo
Kaleida Health
Buffalo, New York

Qing Lan
Private Practice
Seattle, Washington

Hyeshek Lee
General Practice Residency
Robert Wood Johnson University
Hospital
New Brunswick, New Jersey

Jessica Lynn Levy
General Practice Residency
New York Medical College
Westchester Medical Center
Valhalla, New York

Danielle Marie Lloyd
General Practice Residency
St. Peter's Hospital
Albany, New York

Jennifer Jane Long
General Practice Residency
University of Rochester
Strong Memorial Hospital
Rochester, New York

Ryan Fredric Maine
General Practice Residency
SUNY Upstate Medical University
Syracuse, New York

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Program
University at Buffalo
Buffalo, New York

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Brooklyn, New York

Edmund L. Markey III
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Children's Hospital of Pittsburgh
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Rochester, New York

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Fairfax, Virginia

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United States Navy

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Rochester, New York

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Rush University Medical Center
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Montefiore Medical Center
Bronx, New York

Scott Sweeney
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Veterans Affairs Medical Center
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Albuquerque, New Mexico

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Baltimore, Maryland

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Buffalo, New York

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Roswell Park Cancer Institute
Buffalo, New York

Paul Yew
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Albuquerque, New Mexico

Fady Alfons Zaki
General Practice Residency
Peninsula Hospital Center
New York, New York

Yu Ye Zhou
General Practice Residency
Mount Sinai Medical Center
Manhattan, New York



(Opposite left) On their way. (Opposite right) Dean Buchanan hoods Peter Skuben. (Above) Amit Patel and Janne Tran enjoy the moment.

The state of ORAL BIOLOGY

For more than four decades, the School of Dental Medicine has been a national leader in the science behind oral health. ▲

by Judson Mead



Douglas Levere

What is the School of Dental Medicine's Department of Oral Biology best known for? That will depend on who's answering the question. A historian of the discipline might say that because the department was the first of its kind established in the U.S.—by the dental school's visionary dean, James English, in the early 1960s—it should be known first of all for blazing the trail for the entire science and for establishing an organized scientific research presence in dental schools.

Anyone working in salivary research, whether they know it or not, is probably indebted to the department's program

in that area, directed for two decades by Michael Levine, because it established so much fundamental science and in the process produced a cadre of researchers that continues to influence the course of the science—among them Lawrence Tabak, the current director of the National Institute of Dental and Craniofacial Research.

The department was a pioneer in research into the connections between oral health and systemic health. This rapidly expanding area of inquiry is stimulating collaboration between medical researchers and oral biologists, and has promising implications for future interest in oral biology. Former

chair Robert Genco helped open this field with his studies of the links between periodontitis and heart disease and diabetes.

Current department chair Frank Scannapieco occupies a place on this distinguished academic family tree, having earned his doctorate under Levine in 1991 and succeeded Genco as chair in 2002. An internationally renowned authority on the mechanisms of dental plaque formation, Scannapieco is perhaps best known for demonstrating that amylase—the most common enzyme found in saliva—often binds to a protein that indicates the presence of the bacteria that causes periodontal disease.

Scannapieco is a student of the department's storied history—he has published appreciations of Levine's and Genco's contributions to oral biology. But respectful as he is of that history, he says that the “graying” of the faculty has given the department an opportunity to renew itself.

“We are positioned to increase our funding and to develop new areas of research over the next five to 10 years,” he says, speaking of the newcomers.

The department's research emphases are microbiology; host-response mechanisms as they relate to oral diseases; tissue engineering, especially explorations into bone and

connective tissue growth; and saliva, in particular how salivary molecules interact with micro-organisms.

By contrast, oral biology departments elsewhere can have very different research profiles. The department at the University of Maryland has a strength in the neurosciences and works in the area of pain; the department at the University of Illinois–Chicago is known for its developmental biology.

The UB department's past is shaping its future. Scannapieco says that because of its history of research strength in microbiology and immunology and saliva research, when the department was ready to hire, they conducted a wide search for scientists with expertise in these areas.

The three most recent additions to UB's department are Steven Gill, Chunhao Li and Stefan Ruhl.

Gill, whose laboratory is located at the New York State Center of Excellence in Bioinformatics and Life Sciences, uses genomics and bioinformatics to study bacterial pathogens, oral bacteria and commensal bacteria (the welcome bacteria we depend on) that reside in the human host. Among other research pursuits, his lab is working on a metagenomic examination of the bacterial community that resides in the human oral cavity. Before he joined the UB faculty, Gill had been one of the lead researchers on a project that mapped the ge-

nome of the bacterial colony of the human gut.

Li's research uses genetics, biochemistry, and genomic, proteomic and animal models to explore the basic biology and pathogenesis of pathogenic spirochetes, which include the Lyme disease spirochete and the oral spirochete *Treponoma denticola*.

Ruhl, who is an expert in salivary biology, is studying the interaction of salivary components and the microflora that colonize the mouth. (Ruhl

was profiled in the spring 2008 issue of *UB Dentist*.)

Of the new faculty, Ruhl, who came to UB from Germany, has a background in dental studies, but neither Li, who studied medicine and microbiology, nor Gill trained in dental medicine.

This is something of a departure from a traditional path into oral biology. Scannapieco, like his mentor, Levine, and his predecessor, Genco, holds a degree in dental medicine (he earned a DMD from the University of Connecticut and a certificate in periodontology at UB), which he used as a foundation for his interest in oral biology. Before there were

doctoral programs in oral biology, students who wanted to pursue scientific interests in dental medicine studied such fields as immunology after going to dental school. Now, the science doesn't necessarily require a clinical background.

The department is, nonetheless, part of the School of Dental Medicine. Its quarters in Foster Hall may be separated from the clinical teaching facilities in Squire Hall, but the intellectual traffic between the two is steady. Scannapieco notes that

“We are positioned to increase our funding and to develop new areas of research.”

—FRANK SCANNAPIECO

clinical faculty with research training enrich the conversation in the department. Students taking postgraduate clinical programs usually complete master's degrees as well, and many study with the department. Also, but regrettably rarely, according to Scannapieco, the department enrolls students studying for both a DDS and a PhD.

Scannapieco was formerly director of the Student Research Group and helped organize the first student research days.

The department tallied \$3.3 million in research expenditures during the 2006-07 fiscal year, the most recent UB has reported. This puts

it in the same league with far larger departments such as biological sciences and psychology among UB's most successful at finding research dollars. Scannapieco has been among UB's top 100 federal grant recipients annually since 2003.

Scannapieco believes that the future of oral biology is bright. The intensifying investigation into the oral health-systemic health connection has aroused interest in oral biology from outside the field and pushed areas of research together, breaking down barriers that in the past kept oral biology isolated. Another hot topic in oral biology is work on the regeneration of tissue, specifically, the possibility of growing teeth. Scannapieco also says that academic research in oral biology is increasing outside the U.S. (Brazil is a leading example.)

As the field grows and evolves, UB will continue to enjoy recognition for what it started in the early 1960s. “There are other dental schools that are not fortunate enough to have departments like ours,” Scannapieco says. He credits James English for having started the department with the resources and faculty lines it would need to succeed. And he looks to the future—of the field and the department—for more history.

If you want to look into that future today, visit the department Web site at www.sdm.buffalo.edu/oralbiology. ▀



While some 40 percent of the U.S. men and women currently serving in Iraq are reservists, including about three-quarters of the medical corps, the odds are long that two faculty members from the same university would serve overseas at the same time, only miles apart, and not know each other was nearby. But that was the case for Raymond Miller, '85, clinical associate professor of oral diagnostic sciences, and Todd Havens, '98, clinical assistant professor of restorative dentistry, both of whom recently returned from deployments to Iraq. ▲



OK

by Kevin Fryling

Todd Havens, right, with fellow dentist Aldrin Adamos from San Francisco, Calif., at Victory Over Iran palace, Camp Liberty, Baghdad, Iraq.

“I was right in the heart of Baghdad, in what most people know as the Green Zone, which is a misnomer because that implies it’s completely safe,” Havens says. “Ray was apparently right at the Baghdad Airport, which everyone who comes into Iraq goes through, but I didn’t even know it.”

Miller, a lieutenant colonel, has served with the 107th airlift wing, based at the Niagara Falls Air Reserve Station in Niagara Falls, N.Y., since 1989. He was stationed in Iraq for three months this spring as a member of an expeditionary medical squadron at Sather Air Base on the west side of the Baghdad International Airport.

Havens, a captain who’s been with the 7207th medical support unit in Webster, N.Y., since September 2000, served in Iraq as a member of a reserve dental corps at Ibn Sina Hospital, located in the International Zone, better known in the U.S. media as the Green Zone, in central Baghdad, from April to June. The locations are connected by a 12-mile stretch of asphalt known as Route Irish—or IED Alley by soldiers, says Havens—notorious for roadside bombs, the IEDs (improvised explosive devices) in military jargon.

Miller and Havens both emphasize that the dangerous deployments in Iraq are those of the troops on the ground, serving in towns, villages and

cities throughout the country, including downtown Baghdad. But they also say that even medical support personnel such as themselves were no strangers to the threat of rocket attacks and roadside bombs.

“It’s hard to describe,” Havens says about the dangers. “It takes weeks to get over there, after all the training, and then, the first day you’re there, there’s a sandstorm... and they’re shooting rockets fairly close to your area. But everyone said, ‘You’ll get used to it,’ and they’re kind of right.”

Havens said the rocket fire tapered off three or four days after his arrival. Enemy fire was rare at the air base, says Miller, who nonetheless could still recall seven or eight times during his deployment when mortar attacks on the base perimeter required everyone, including medical personnel, to take serious precautions.

“When we had an alarm, you had to put on body armor—a helmet and jacket weighing about 30 pounds—to keep you protected if something was blowing up,” he says. “And things were blowing up. But they weren’t real accurate and the base was large. We could hear the explosions and see the smoke, but, fortunately, during my time there no one was injured by a mortar attack or anything else that came onto the base.”

In fact, Havens and Miller say that despite the wartime conditions, facilities in their

locations were good. Ibn Sina Hospital, a private medical center reserved for Saddam Hussein and Baath party elitists before U.S. troops converted it to a combat support hospital (or CSH, pronounced “cash”), is surprisingly modern, according to Havens.

At the air base, Miller found the medical equipment in good condition. His duty was split between a small dental clinic in a large hospital unit and a satellite location for members of the Iraqi police being trained by U.S. troops. Most of the structures on the air base were semipermanent trailers. The hospital where Havens served was a large concrete structure, located near the NATO headquarters in Iraq.

“It was actually considered one of the best hospitals in the country, with about 50 beds, operating rooms, emergency rooms, all in good repair,” Havens says. “It’s completely run by the U.S. military today. They still bring patients in by helicopter, just like on M*A*S*H*.”

While most of his cases involved walk-in emergency dental care, Havens says there were several occasions when he assisted an oral surgeon on trauma cases involving facial injuries. Two were Iraqi children who had been struck by cars. He also assisted with a civilian who had been injured by shrapnel from a mortar or rocket-propelled grenade. The children were fine, he adds,



Ray Miller with Iraqi children playing with donated coloring books and crayons at the Civilian Military Operations Center in Baghdad.

but the civilian was not so fortunate.

Miller says his surgical cases were less dire, aside from a few work-related mouth injuries; but numerous injured soldiers came through the air base for transport to hospitals in Europe. He also witnessed several “Patriot Details,” the honor guard that escorts the flag-draped coffin of a fallen soldier to the plane returning them home.

“Mainly, my job was to provide dental care to the U.S. troops that were over there—Army, Air Force, Navy, any of the service members in the region—that need care because of the length of their deployment,” he says. The majority of his cases required care similar to the sort he provides at his private practice, Miller and Schiumo, DDS, in Lancaster, N.Y. “The Iraqi forces, the Iraqi national police—for them it was primarily extractions, exodontias, emergency care, just because their level of

[dental] fitness isn’t as high as the standards that we have.”

In the Green Zone, Havens not only provided dental care to U.S. troops, but also to patients from places outside the U.S., including international coalition forces from Poland, Georgia, South Korea, the Fiji Islands and the U.K., as well as Iraqi police, U.S. embassy and Department of Defense personnel and independent contractors, including security contractors, many of whom hailed from such nations as Peru and Uganda. There was also a great emphasis on emergency care at the hospital, he says.

In addition to their experiences in Iraq, Miller and Havens have each participated in noncombat missions as medical reservists. In 2004, Havens spent four months at the dental clinic at Ft. Drum, N.Y. Miller has taken a humanitarian medical trip to Honduras and served as a member of a Disaster Mortuary Operational Response Team in the aftermath of several major national disasters, assisting in the identification of victims of Hurricane Katrina and the terrorist attacks of September 11, 2001. In August, he will help provide free dental care to the residents of an Indian Reservation in South Dakota.

Havens, who operates Niagara Dental Health in Niagara

Falls, N.Y., with his twin brother, John Havens, ’98, and John J. Bonghi, ’68, says the most difficult part about his deployment was leaving his practice, his wife, Diana, and young children, Jenna, 9, and Jack, 6, for two months, especially since the children were all too aware that an older cousin’s boyfriend had been killed in Iraq in January 2007. Miller, the father of two children, Raechel, 23, and Christopher, 15, with his wife, Maria, talked about this hardship as well, but also of his great pride in being able to “contribute something to the overall mission” in Iraq.

Not all their memories of Iraq are difficult. One moment from the last day of his deployment will stay with Havens for a long time. He says that he and several friends celebrated the end of his tour by playing a round of golf on a small makeshift course on the base, shoehorned between the NATO headquarters and a 12-foot concrete blast wall topped by barbed wire. The holes were PCP piping and baked bean cans sunk into the dirt.

“It was a little par-three golf course, the longest hole there was 90 yards,” he says, “and I hit a hole in one.” ▀

A CONVERSATION WITH

Jude Fabiano

The associate dean for clinical affairs discusses his role and the upcoming modernization of the school's clinics



K.C. Kratt

What do your responsibilities as head of clinical affairs encompass?

Primarily, my responsibility is to oversee the dental clinics in the School of Dental Medicine, in conjunction with the clinical operations staff, to ensure that students get an excellent education and that patients are treated well, receive quality dental care and are satisfied. Steve Colombo, the director of clinical operations, manages the actual operations side of the clinic, everything from the multimillion-dollar budget to personnel, operations, supplies, clinical instrument management, infection control, maintenance—all the elements that go into running a 400-chair clinic.

What's a typical day like for you?

That depends on the day, but I probably spend about half my time in my office and half anywhere else in the building—the secretaries say they can never find me. In addition to dealing with operational issues, as the director for the third- and fourth-year clinic course, I have to be available to evaluate students and consult with faculty, so I may interact with faculty or students at any time about the clinical experience. I also deal with patient issues. There are a lot of different spokes to the wheel. I get paged on the overhead sys-

tem or I get cell phone calls from inside the building—it might be a patient treatment issue where the treatment is at a crossroads and we have to decide where to go from here. It might be that a faculty member called in sick and we have to rearrange coverage. It might be an educational issue regarding a clinic course. It might be something about a project I'm working on with the staff. There are a lot of fires to put out.

What is the state of the school's patient population?

It's good, but we're always looking to increase the number of patients we can assign to our students and we're always looking for variety. Most people are keeping at least some of their teeth now, so it's getting harder to find patients who need complete dentures, for example. We're considering being more proactive about the benefits of coming to the school—the big plus is that you can receive quality care that is very affordable.

Would a dentist who graduated 15 years ago see much difference in the clinic today?

The patient population is older now. I think that's because older patients have more flexible schedules so they are more available for appointments and they can stay longer when they come in. As for the technology,

the way we use computers for patient management and the digital radiography would be new. But the appearance of the clinic would be about the same.

That will be changing soon, right?

Yes. We're in the middle of planning for clinic modernization right now. We will be replacing all 400 chairs and all the cabinetry and the flooring in the three main clinics and dental units in the specialty clinics. We'll also be redesigning the front entrance to be more patient friendly and secure.

We're also coordinating a major change in the second-year curriculum with the clinic modernization because we want to move second-year clinical simulation into a clinic setting. Starting with the operative technique course in 2009, we'll have students practicing on mannequins in the second-floor clinic, complete with a simulated patient record, infection control, a computerized patient account, a treatment plan, and so on, so that the students transition to live patients will be completely familiar to the students. This is tied to installing units in the second floor clinic with computer monitors that will allow us to project demonstrations to their chairs so they can visualize in real time simulation.

How much will this cost and how long will it take to complete?

The current overall cost is about \$9.5 million. This will cover the clinic modernization, the front entrance renovation, an electronic oral health record system, the clinical simulation system, and a new dental van. The university has committed funds for the project, and it's possible that the state's HEAL NY primary care infrastructure program may contribute funding. We'll find out by the end of the summer. We expect to start work in the spring or summer of 2009 and finish as soon as two years later. We'll work in phases so we can operate the school and replace units at the same time. It will take some creative scheduling to do that.

What are your main challenges?

The modernization, of course, and the accreditation visit in 2010, which we'll start preparing for this fall. Overall, my main challenge is to ensure that we're basing our curriculum and instruction on evidence-based procedures and—with that in mind—that we're always ready to change when new techniques and practices are shown to be beneficial.

Making the Difference



Nancy J. Parrisi

To learn more about giving to the School of Dental Medicine, please contact Carol Vanini, director of development, at (716) 829-3931 or vanini@buffalo.edu.

BILL RATHKE, '44, DDS '51

As a 16-year-old from a working-class neighborhood in South Buffalo, Bill Rathke, '44, DDS '51, wanted to be the first in his family to attend college, but he couldn't afford UB's \$385 tuition.

So, the July after he graduated from high school, Bill hopped on a bus to the South Campus, where he visited the office of Lillias MacDonald, UB's first dean of women and head of the scholarships committee. The secretary there informed him he was too late to apply for that fall. "I walked across the street to get a hot dog, with my tail between my legs," he says with a laugh.

Not knowing where else to turn, Bill placed a call to one of his aunts, who worked at a law office in Buffalo and, it turns out, had UB connections. Before he had finished his lunch, his aunt called him back and told him to return to Hayes Hall. "As I walked up to the door, the secretary was waiting for me and said, 'We're so glad you came back, Mr. Rathke.' They sat me down at a long table and I made out an application," Bill says.

Bill eventually received the scholarship, although he had to apply every year; it allowed him to earn an undergraduate degree in physics.

"Going to UB gave me a direction, it focused me," he says. He discovered dentistry through several friends who were already in dental school at UB, and through the late Richard F. Westermeier, '32, Bill's family dentist whose grandson, R. Scott Westermeier, is a 1986 alumnus. "No matter when you saw him, Rich would always make you feel like you were the first patient of the day," Bill recalls.

This year, as he retires from a long and prosperous career in orthodontics, Bill has committed \$100,000 to UB. Sixty thousand dollars of his gift will go to the dental school in the form of a charitable gift annuity, and \$40,000 will immediately go to the Buffalo Public Schools Scholarship, a newly endowed undergraduate scholarship fund established last year to benefit graduates of city schools.

"Bill has been a longtime supporter of our school, and his latest gift allows us to continue to offer our students the educational and technological margins of excellence that will make them the best clinicians they can be," says Richard Buchanan, dean of the

dental school. "We are extremely grateful for his generosity."

Bill's support of the dental school and of UB undergraduates stems from his strong connections to the Buffalo community and to the university that helped put him on a path to success. "I didn't make all my money from dentistry, but school taught me how to do well for myself," he says.

His gift is the largest single donation so far to the scholarship fund—and needed now more than ever. Approximately 50 percent of UB undergraduates demonstrate financial need to attend college, but only 25 percent of those students receive assistance through scholarships and grants.

After serving in World War II as an electronics technician in the Navy, Bill returned to Buffalo to apply for dental school. UB needed more instructors to accommodate the returning war veterans, so while taking his pre-dent courses he taught freshman physics to Air Force cadets. "Teaching was a good experience," he says.

Bill has lots of good memories of how higher education benefited him and his family—he met his late wife, Dorothy, at Columbia University while he was earning his ortho degree. (He has three grown children and two grandchildren.)

"Education lifts up people and families, and is a way out for those who need help," Bill says.

At 84, Bill remains an active part of his community in Orchard Park, N.Y., visiting his local YMCA several times a week and volunteering for Food Shuttle of Western New York. He feels he has been extraordinarily fortunate in his life, and is proud of the practice he built in Hamburg, N.Y.—one he's ready to pass on to the next generation of orthodontists. "I'm happy to have had the chance to sell it to Steve (Stephen Aszkler, DDS '69, Ortho '73)," he says. Aszkler's son, Rob, DDS '07, is a second-year orthodontics student in the School of Dental Medicine.

Bill's story will be featured in a video presentation as part of UB's annual scholarship gala this fall, highlighting how the Buffalo Public Schools Scholarship benefits deserving students unable to afford higher education. ▀

by Lauren Maynard

AlumniNews



They live to play another day. The 2008 Hanau Cup was played without injury, hardly even a bruised ego.

2008 Hanau Cup Successfully Contested

On Saturday, April 5, 2008, at North Buffalo's Lafayette Ice Rink, the famed Hanau Cup Hockey Game was played—UB tradition since 1972. This was the first time in 23 years that Ray Miller, '85, was unable to attend due to his deployment to Iraq, although his presence was still felt—see picture. The game was played in his honor. (For more on Ray's deployment, see the story on page 10.) In front of a standing room only crowd, 21 skaters played an intense pickup game. Everyone had a good time and the good guys won as they always do. Happily, no one got hurt; even more happily, the AED unit wasn't needed! The two goaltenders, "Fast" Eddie Tyska, '98 and rookie Andy "No Goal" Lee were nothing short of stellar in nets. Erin Topley, '09, played her usual strong game, scoring

numerous goals and flattening only one of her own teammates. The postgame party at the Steer was well attended, with dehydrated players continuing to dehydrate themselves while packing in overly nutritious foods. Sincere thanks go to all players, as well as everyone who helped organize this fun event.

Participants included: Andy Lee; Mike Gengo; Jeremy Hamill; Eric Vieth, '10; Mike Nagai, '10; Kam Schaberg, '10; Erin Topley, '09; Bryan May, '09; Michael Markiewicz, '08; Ed Tyska, '98; Kurt O'Donnell, '94; Louis Giordano, '91; Jay Mostowy, '89; Ken Lee, '89; Marlin Salmon, Ortho '85; John Lucchese Jr, '84; Douglas Hamill, '83; Robert Warner, '81; James Matteliano, '80; Fred Rodems III, '80; and Michael Kowalesk.

UB AT ADA IN SAN ANTONIO

The UB Dental Alumni Association will be at the ADA meeting in San Antonio.

Please plan to join friends and colleagues at the UB reception:

Friday, October 17

5:30–7:30 p.m.

**Marriott San Antonio Rivercenter
101 Bowie Street, San Antonio**

As a special UB event, we are making arrangements with Major General Russell Czerw, '87, Commander of the U.S. Army Medical Department Center and School at Fort Sam Houston, for a tour of his command during the meeting.

If you are interested in the tour, call Susan Ertel at (716) 829-6007 or e-mail sueertel@buffalo.edu.

CLASS NOTES

Milton D. Grodner, '44, recently attended his granddaughter's wedding in Austin, Texas. The next big event in his life will be his 97th birthday, which is coming up soon. Grodner lives in Albuquerque, New Mexico, and still plays nine holes of golf about twice a week. He writes that he would like to hear from his Class of 1944 classmates.

Sebastian G. Ciancio, '61, was the keynote speaker at the 30th Asian Pacific



Dental Congress, held in Bangkok, Thailand, May 6-10,

2008, and was a featured speaker at the meeting of the Asian Pacific Society of Periodontology also held in Bangkok. Earlier this year, he participated as a member of the Erie County Specialized Medical Assistance Response Team in the recent hepatitis clinic associated with the possible exposure through Wegmans produce. He is a SUNY Distinguished Service Professor and chair of the Department of Periodontics and Endodontics at the School of Dental Medicine.

John A. Balikowski, '65, is currently a missionary dentist in Ethiopia, which has only one dentist for every 1.5 million people.



He serves on the faculty of Ad-dis Ababa University College of Medicine, Dental Training Center, which conducts a dental training course for physicians and nurses. Balikowski also serves as Africa Coordinator for World Dental Relief. He has been a full-time missionary dentist in many countries since 1987.

Davis A. Garlapo, '68, was awarded the 2008 William M. Feagans Award,



which is presented by the Dental Student Association to a distinguished member of the faculty, staff or administration. Feagans was dean of the School of Dental Medicine from 1970 to 1993. The award signifies that, like Feagans, the recipient has shown students a concern that encompasses the finest aspects of academic dentistry, tempered with an appreciation of the demands of "real life" dentistry and the inherent challenges of student life.

Dean A. Rosenthal, '76, sold his practice in Fairport, N.Y., and moved to Port Ludlow, Wash., where he and his wife, Irene, built a house. They helped with some of

the construction and are now landscaping it. They also helped renovate the fitness center at the community center where they work out three times a week. Rosenthal stayed retired for nine months. He now works two days a week at the Lower Elwha S'Klallam Tribal Dental Clinic, 60 miles from Port Ludlow. He says work is very fulfilling, the patients and staff are wonderful and he gets to have fun using his well-honed dental skills.

Peter Monaghan, PhD '79, and his partner, Lien Le, moved their office to a new facility at 909 Davis St., Evanston, Ill. in June 2008. In April 2008, Monaghan and Le presented "Marginal Fit of a Nobel Biocare Implant Temporization System," at the annual American Association of Dental Research meeting in Dallas, Texas. They are general practitioners, although their practice centers mainly on fixed prosthodontics, implant dentistry and oral surgery. Monaghan and Le also provide intravenous sedation to reduce anxiety in those patients who may require it.

Monaghan and Eugene Lautenschlager advise Northwestern University orthopaedics surgery residents with their research

projects, and Monaghan is an associate editor for *The Angle Orthodontist*.

Richard Andolina, '80, has been elected secretary-treasurer of the New York State Dental Association (NYSDA).



Andolina is a consulting dentist with several regional

hospitals, and has been active in his community serving as a director on the boards of St. James Mercy Hospital, the chamber of commerce, a local bank, the Humane Society and YMCA. He is a Fellow in the Academy of General Dentistry, American College of Dentists, the International College of Dentists,

the Academy of Dentistry International, and the Pierre Fauchard Academy. He was chair of the NYSDA Council on Dental Practice and served on the NYSDA Finance, Budget and Audit Committee. At the national level, Andolina has served since 2001 as a delegate to the American Dental Association (ADA).

Maureen P. Donley, '80, has been selected as the director of oral radiology at the UB School of Dental Medicine. She has more than 10 years experience in the dental school radiology clinic, 20 years of clinical teaching and 11 years in private practice.



JEFFREY GOLDBERG, '03, left, currently pursuing an MBA at UB's School of Management, and MBA colleagues Laura Oberg and Andrew Broczkowski took second place in UB's annual Panasci Technology Entrepreneurship Competition. The team received \$10,000 to launch a new business. Their concept, *Mentor Cafe*, is an Internet-based system to facilitate mentorship programs. The UB Dental Alumni Association is a potential trial client for the program.

Thomas E. Van Dyke, MS '80 and PhD '82, was appointed to the medical advisory board of Imagenetix Inc. He is a professor of periodontology and oral biology at Boston University's Goldman School of Dental Medicine. Van Dyke lives in West Roxbury, Mass.

Heidi Crow, MS '91 and TMD '91, has been selected to chair the Commission on Dental Accreditation's Ad Hoc Committee to Draft Accreditation Standards for Orofacial Pain Programs. She also passed the fellowship exam for the American Association of Hospital Dentists at the 2008 Special Care Dentistry annual meeting. She is associate professor in the Department of Oral Diagnostic Sciences at the UB School of Dental Medicine.

Mary A. Bush, '99 and GPR '00, was elected to the board of governors for the American Society



of Forensic Odontology. Bush is currently assistant

professor in the Department of Restorative Dentistry, UB School of Dental Medicine.

Obituaries

John M. "Jack" Christenson, '40, of Fredonia, N.Y., died on April 10, 2008.

John W. Owen, '42, of Youngstown, N.Y., died on May 16, 2008, at age 91.

Jack Weinberg, '47, of Alden, N.Y., died on May 4, 2008.

Angelo J. Bianchi, '49, of Irondequoit, N.Y., died Jan. 22, 2008. Ange was a charter member and past president of the East-ridge Kiwanis, MIA and POW of WWII, a member of the American Legion Post #0134, a lifetime member of the Monroe County Dental Society, Appollian Dental Study Group and Penfield Country Club.

Robert R. Baxter, '51, died July 2, 2008, in Bradenton, Fla. He was 82. He served as a pharmacist mate in the Navy during WWII and then earned a BA from the College of Wooster in Ohio. He practiced for 45 years in Lockport, N.Y. Once retired, he and his wife, Barbara, shared their summerhouse on the mountains in Wintergreen, Va. with family, friends and an occasional bear.

Jacob Heil, '60, died January 24 at his home in Covenant Village, Westminster, Colo. Heil was elected president of the Colorado Dental Association (CDA) in 1990 and served as Speaker of its House of Delegates.

He was a consultant to the Colorado State Board of Dental Examiners and dental consultant for Coors Brewing Company. The CDA honored Heil with its Distinguished Service Award in 1992.

He was an assistant clinical professor at the University of Colorado School of Dentistry and he was active in many civic pursuits, including service on his local board of education.

G. John Kroubalkian, '61, of Greece, N.Y., and Naples, Fla., died Sept. 20, 2007. He was 77 years of age. Kroubalkian served in the military from 1950 to 1954.

Ronald A. Chmiel, '62, died on May 14, 2008, at his home in Amherst, N.Y. He was 72. He practiced in Cheektowaga for 37 years, retiring in 1999. He served in the U.S. Army's 338th General Hospital and in the New York National Guard 106th Field Artillery 27th Armored Division. He retired as a lieutenant colonel in the Army Reserve. Chmiel was the founder and owner of WUWU-FM 107.7, a radio station that helped pioneer alternative rock music in Western New York.

Friday, September 12, 2008

9 a.m.-4 p.m.

105 Harriman Hall

University at Buffalo South Campus

Dr. Gary Carr

- The death of endodontics—is there life after death
- Getting better at the retreatment game
- What's new in biofilm
- Design for the digital office

For endodontists and general practitioners.

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UB Dental Alumni Member \$225

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6 ce hours ADA/CERP

Continental breakfast (8:30) and lunch included.

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Call UB/CDE at (716) 829-2320 or 800-756-0328 or go to www.BuffaloCE.org.

Friday, September 12, 2008

The Dr. John Cunat Fund Lecture

9 a.m.-4 p.m.

Millenium Airport Hotel

2040 Walden Ave.

Cheektowaga, N.Y.

Dr. Vincent Kokick

Interdisciplinary management of anterior esthetic dilemmas: When? Why? How?

CE course tuition

UB Dental Alumni or Eighth District Ortho Member \$225

Nonmember Dentist \$275

Dental Office Team Member \$125

6 ce hours ADA/CERP

Continental breakfast (8:30) and lunch included.

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Creating a Cutting-Edge Practice

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Ronald D. Jackson, DDS, FAACD
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Karl R. Koerner, DDS, MS
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- بر کردن موقت ریشه
- مناسب جهت درمان کانال های لیکج دار، اپکیفیکاسیون
- سرنگ مخصوص برای انتقال به داخل کانال
- پالپ کینگ و پالپوتومی
- خمیر آماده مصرف قابل حل در آب



• هیدروکسید کلسیم + ید Metapex

- جذب مجدد داخلی و خارجی ریشه
- اثر آنتی باکتریال و رادیو اپیک عالی
- بر کردن دائم کانال ریشه
- تشکیل دیواره بافت سخت در انتهای ریشه
- مناسب جهت کانال های لیکج دار و اپکیفیکاسیون
- درمانی آسان برای بستن دائمی اپکس در دندان های شیری