

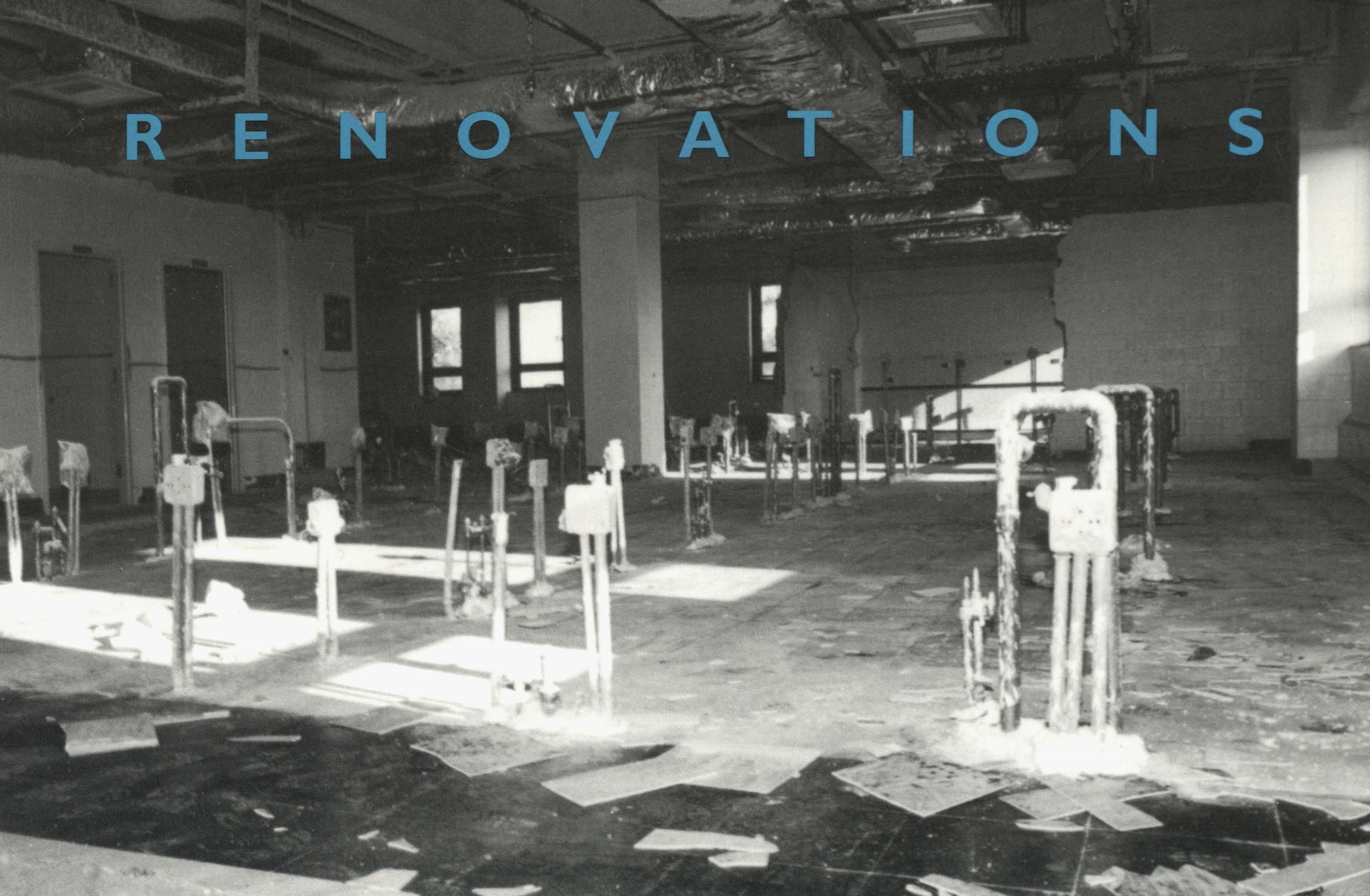
INDIANA UNIVERSITY
SCHOOL OF DENTISTRY

Annual Report

ALUMNI BULLETIN SPECIAL EDITION
VOLUME 10, NUMBER 1 • 1996



RENOVATIONS



ANNUAL REPORT
Indiana University School of Dentistry
Alumni Bulletin, Vol. 10, No. 1, 1996

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Cover photographs by Gary Mills

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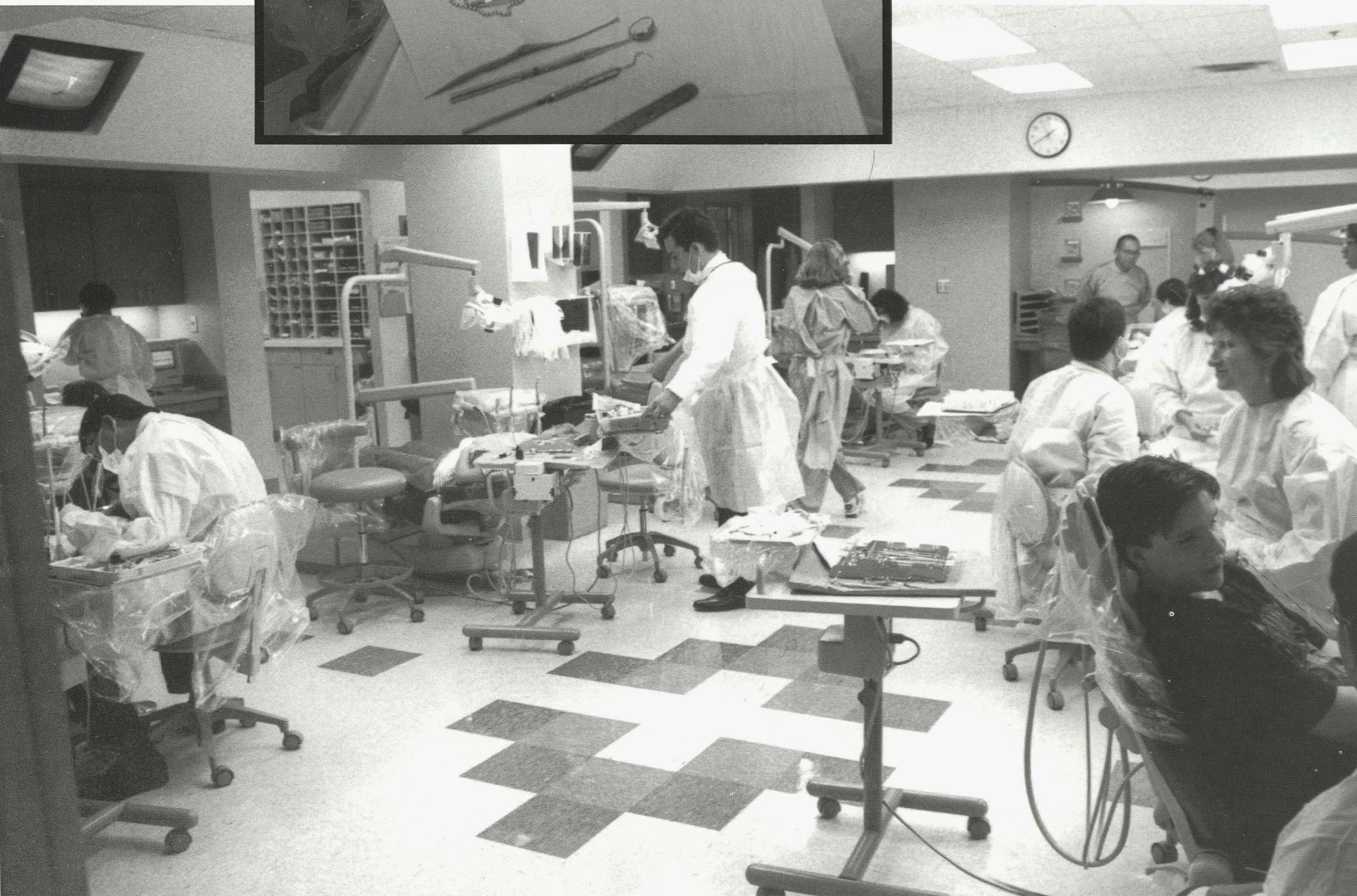
Back Home Again in Indiana 38

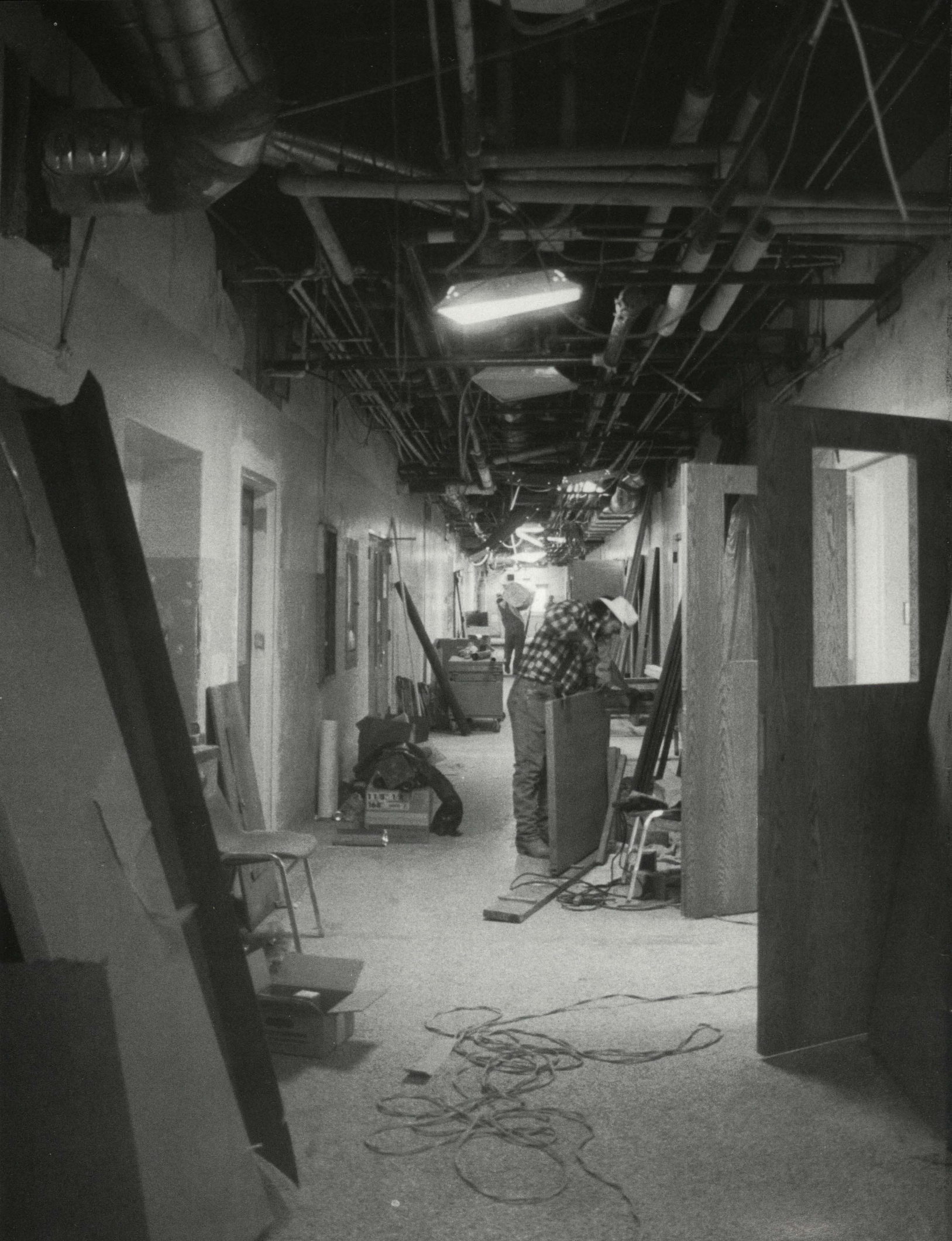
Marjorie Jeffcoat to Speak at IU 40

Photos by Mike Halloran, Doug Bartlow, and Susan Crum



RENOVATION RESULTS. From the gutted second-floor facility shown on the opposite page, a handsomely appointed pediatric dentistry clinic emerged in the Department of Oral Facial Development during the past academic year. This 12-unit clinic is an excellent model of work space put to its most efficient use. In the photo inset, Joedy Gregg (DDS'95), an orthodontic graduate student who was a fourth-year dental student when this photo was taken, examines his nephew Hunter with assistance from Hunter's mother, Sherry Gregg, of Sandborn, Ind., and dental assistant Deborah Bommarito.







A host of researchers and teachers now occupy the space where construction workers toiled last year. This hallway, which used to be part of the oral surgery and pediatric dentistry departments, is the main artery in the new Department of Oral Biology. The remodeling brought about several large laboratories, a shared-instrumentation facility, a cold room, and faculty offices.



An important step onto the path of dentistry's exciting future was taken on the afternoon of September 13, 1995, with the dedication of new facilities on the second floor of the Indiana University School of Dentistry.

Continued on page 4



Dean's Message

With *Lighting Pathways in Dentistry* as its theme, the dental school invited the alumni and other friends and supporters to a Grand Opening Celebration showcasing the results of a series of remodeling projects costing about \$3 million and requiring a year to complete.

I think that many of our visitors who toured the school that day would agree that the building's second floor has been transformed into an extraordinary environment where the school's teaching and research efforts come together in the best way possible for the preparation of tomorrow's dental professionals.

What have emerged from the renovation projects are new clinics for orthodontics and pediatric dentistry; several large laboratories and other research facilities for the new Department of Oral Biology; a suite of rooms that serves as a newly created Oral and Maxillofacial Imaging Research Facility; and a continuing education center named in memory of orthodontist and former Indiana Dental Association president John C. Gorman.

The state-of-the-art clinics for patient care and the diversity of the work being undertaken in the new research facilities speak to the school's future. The changes that have been implemented provide the dental faculty with unprecedented opportunities as well as challenges in academic and patient-service

programs that continue to become more sophisticated in scope.

With these facilities now in place we are well prepared to offer our students a dental education that will keep abreast of changes in dentistry in the coming century.

At the Open House we were delighted to welcome back to Indiana University guest speaker Dr. Richard Elzay, who is dean of the University of Minnesota School of Dentistry. Dr. Elzay earned a DDS degree from IU in 1960 and then completed IU's specialty training program in oral pathology under the guidance of Distinguished Professor William Shafer, now retired.

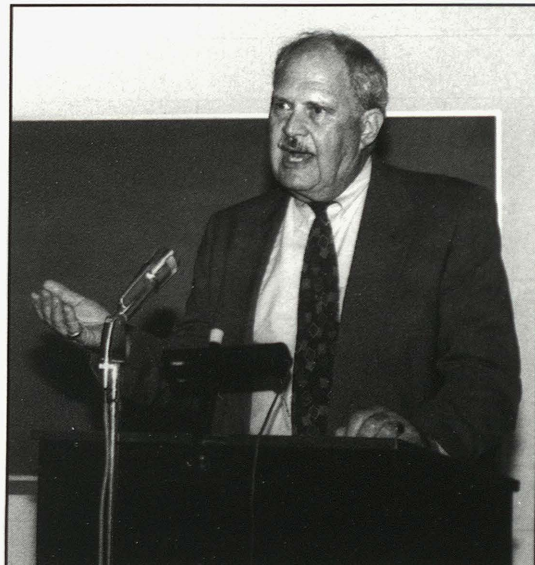
During his career Dr. Elzay has developed an outstanding record of service in dental education. Many new alumni in the audience for his presentation were pleased to discover the value Dean Elzay places on the education he received at Indiana. He spoke of IU's strong traditions in dental education over the last half century—traditions that will be further enriched by the work of the faculty and staff in the school's newest facilities.

As with any dedication ceremony, the occasion afforded us the opportunity to join our friends in saluting the past as well as the future. Indiana University's programs in dentistry developed their great strength and value over years of hard work performed by many persons. As we look ahead with enthusiasm and positive expectations for new

Opposite page: The school's remodeled second floor was officially opened with a ribbon-cutting ceremony. Fourth-year dental students Jeffery Biggs (left) and Bradley Fawcett hold the ribbon for Dean Emeritus and IUPUI Chancellor Emeritus Maynard K. Hine (seated); and standing, from left: Dean H. William Gilmore; IU alumnus Dr. Richard P. Elzay, dean of dentistry at the University of Minnesota; and Dean Emeritus Ralph E. McDonald.

Right: Referring to himself as a "proud alumnus of IU," guest speaker Dr. Richard Elzay addressed an audience of about 150 persons during the Open House. "Today we celebrate more than the dedication of a new facility," he said. "This facility is in fact a symbol of this school's commitment to continually enhance the quality of its programs, and thereby influence how it is perceived by others both now and in the future."

Below: For his outstanding record of service to society and dentistry, Dean Elzay (DDS'60, MSD/Oral Pathology '62) was presented with a Certificate of Appreciation by the IUSD Alumni Association. Here he accepts the award from Association President Roger Isaacs, who is an associate scientist at the Oral Health Research Institute.



directions in the predoctoral, allied dental, and graduate programs, we realize that much hard work still lies ahead.

The educational pathways in our school have never been brighter—they shine from the efforts of hardworking faculty, staff, and students.

The carpenters' boisterous tools that were ever present on the second floor during the past academic year are finally silent. They have been replaced by tools that, while not as obtrusive as drills and hammers, are no less important to the school's mission. They are the educators' tools, and our faculty are using them to build a new curriculum.

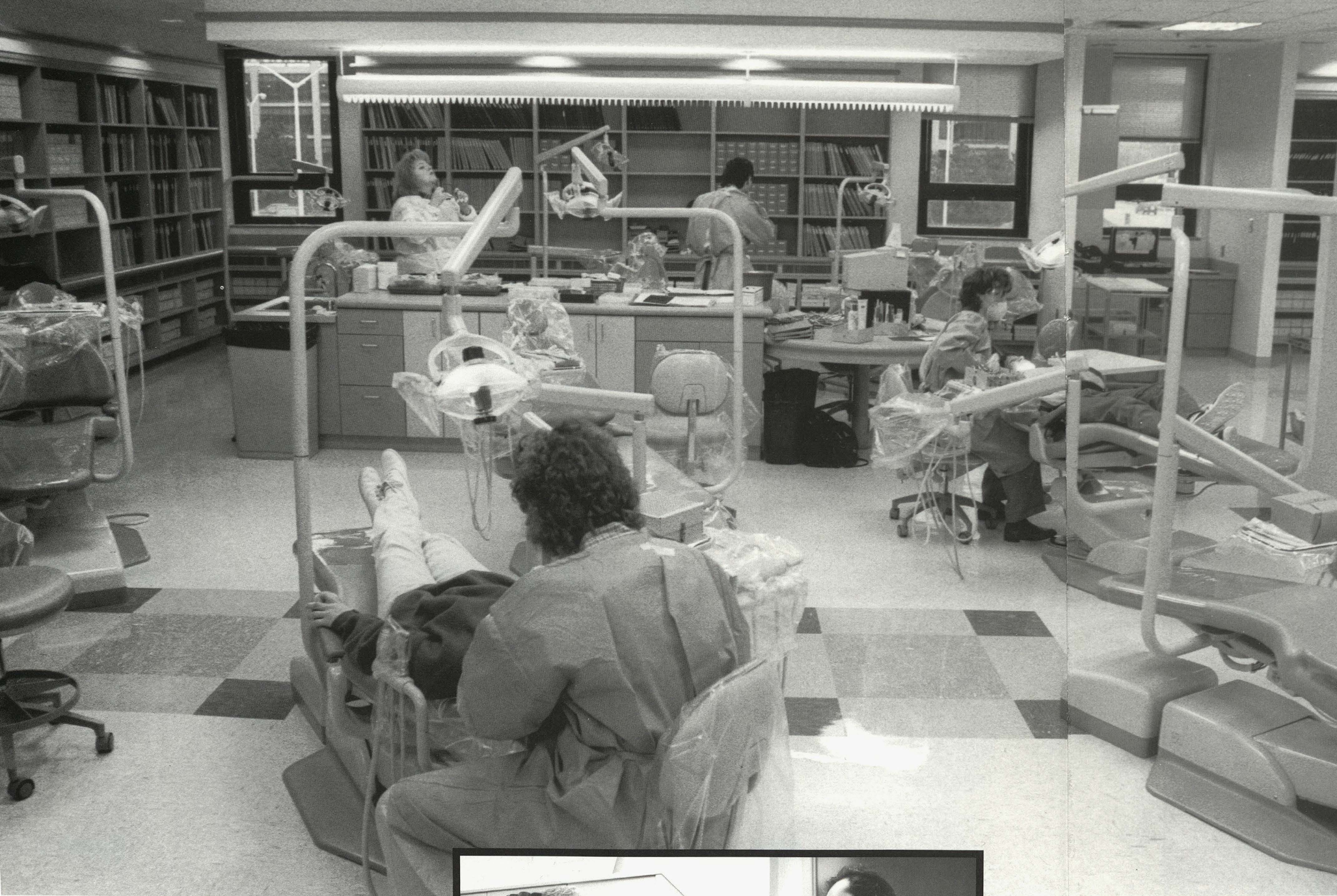
The curriculum is being constructed upon a solid foundation: the dental school's time-honored traditions in educational excellence. And it has the support of a strong framework: the new facilities that offer outstanding resources in dentistry's clinical and research environments.

From a careful study of the current roster of courses and an evaluation of emerging trends in dentistry, the faculty are selecting subjects that will benefit our students the most and designing a program that will expose students to the greatest breadth of experiences.

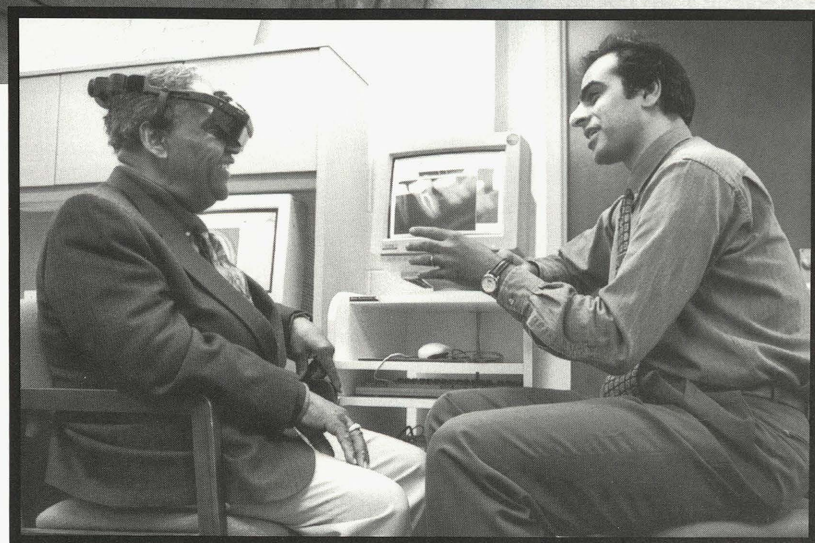


The educational pathways in our school have never been brighter—they shine from the efforts of hardworking faculty, staff, and students. The dedication ceremonies provided an ideal setting for the School of Dentistry and its alumni not only to honor IUSD's fine traditions but also to share a commitment to excellence in dental education in the future.

H. William Gilmore



In the Department of Oral Facial Development a spacious new clinic for orthodontic patients is located at the same site as the former orthodontic clinic. The remodeled clinic beautifully complements the new children's clinic across the hall (see photos on page 1). The facility houses 25 dental units, three computer islands located within the clinic, and a completely refurbished Jarabak Orthodontic Library.



Open House visitor Harvey Thomas (DDS'52), of Muncie, dons virtual reality headgear to discuss computer technology in dentistry with Dr. Mostafa Analoui, director of the school's Oral and Maxillofacial Imaging Research Facility. The facility was one of about a dozen stops on the tour of the school's second floor.

IUSD Acquires a Much-Needed Room

The second-floor renovations gave the school one of its most direly needed facilities: a seminar room large enough to seat 50 persons. Creation of the John C. Gorman Sr. Continuing Education Center ended the school's ongoing dilemma of routinely having to choose between squeezing C.E. and other groups into one of several 12-seat seminar rooms in the dental building, or setting such groups to drift in vast, overly large lecture halls.

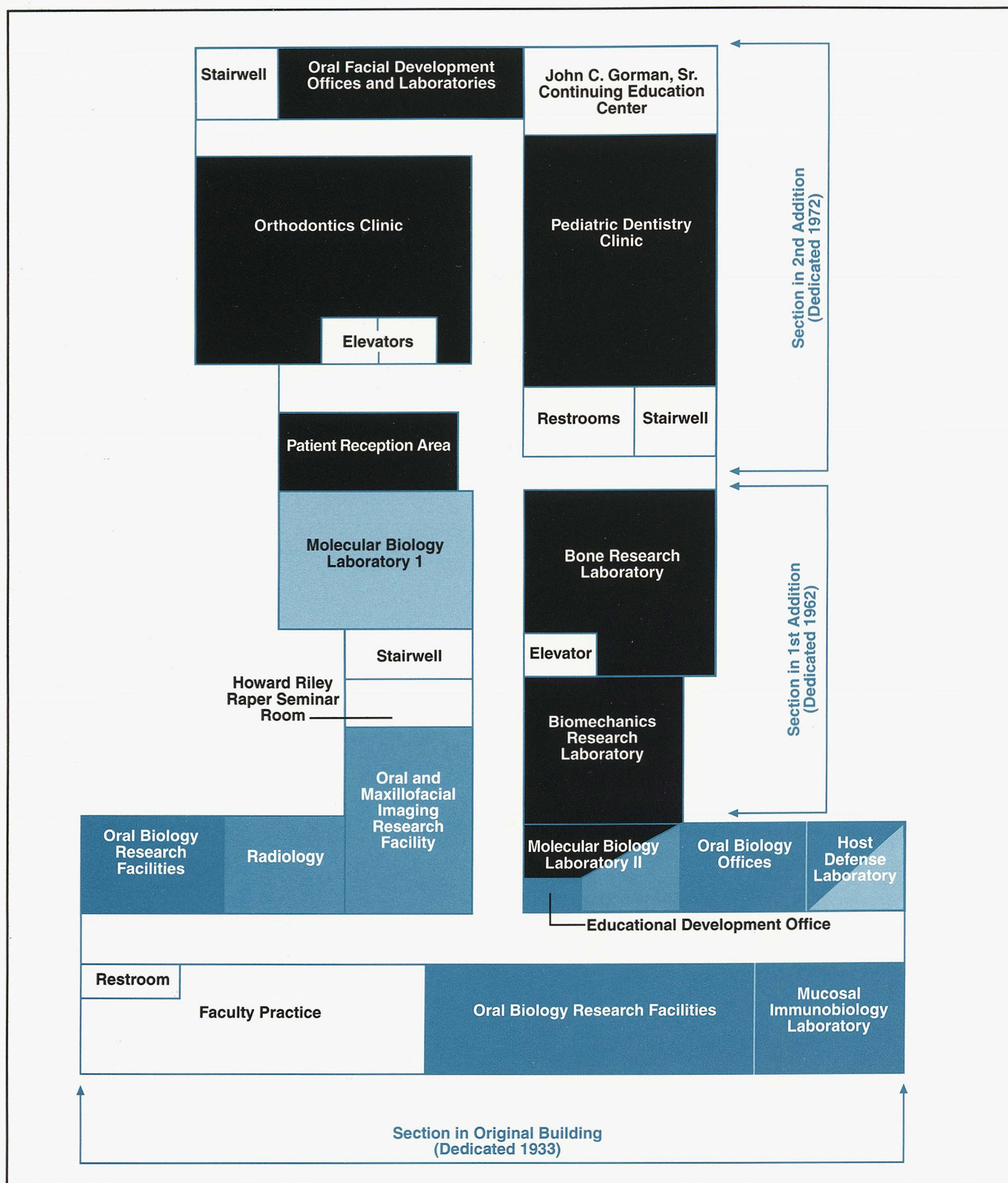
The center honors the memory of an outstanding orthodontist in Marion, Ind. Dr. Gorman served as the Indiana Dental Association's president in 1986-87. He was a dental graduate of the University of Louisville, an orthodontic graduate of Washington (Mo.) University, and an honorary alumnus of the IU School of Dentistry, where he served as a part-time faculty member in the last years of his life. He died in July 1993.

The Gorman Center is located adjacent to the clinics in the Department of Oral Facial Development, where the hands-on phase of courses having a workshop component can be conveniently conducted. The center can also be divided so that two courses can be given simultaneously.



IU Professor Gail Williamson uses the Gorman Center to present a continuing education course, Radiology for Dental Personnel.

Research: A View of Floor 2



- Department of Oral Facial Development
- Department of Oral Biology
- Department of Periodontics and Allied Dental Programs
- Department of Oral Surgery, Medicine, and Pathology

Complementing the efforts of the school's clinical teaching program is an array of teachers and scientists who are located on the remodeled second floor of the dental school. The faculty, staff, and students in these facilities are looking at dental and other health-related problems from the perspective of the laboratory.

• **ORAL BIOLOGY LABORATORIES.** Periodontal diseases are of primary interest in these laboratories. The work is led by **Marilyn Lantz** (DMD, PhD biochemistry), whose research is directed toward understanding the mechanisms by which bacteria interact with host tissues in the development of periodontal diseases. The long-range goal of the studies is to develop strategies to prevent and treat periodontitis.

Researchers here also are interested in the growing problem of root surface caries in adults. The problem has emerged, says **Lech Switalski** (PhD medical microbiology), because "people are living longer, and they are retaining their teeth longer. As the gums gradually recede, the roots of the teeth become vulnerable to bacteria."

The types of bacteria that cause root surface caries have certain components on their surfaces that aim the attack specifically at the root surface. "Our long-range goal is to develop an effective means of preventing this association between the bacteria and the root surface—the idea is to develop an antibacterial therapy that singles out and targets only bacterial species which, by attaching to exposed root surfaces, promote root surface decay."

• **MUCOSAL IMMUNOBIOLOGY LABORATORY.** Researchers in this Oral Biology facility investigate factors that help the decay-causing bacterium *Streptococcus mutans* to attach itself to the tooth's surface. "We study the interaction between proteins present on both the tooth and the bacterium with the hope of developing an antibody or a blocking solution to inhibit the attachment of bacterial cells to the tooth's surface," says **Richard Gregory** (PhD microbiology).

This laboratory also uses saliva to learn more about the human immunodeficiency virus. Dr. Gregory's group studies the ability of antibod-

ies in the saliva of HIV-infected subjects to neutralize the virus. "We know there are inhibitory factors found in the saliva of HIV-infected persons that inactivate the virus—factors that are not found in the blood," he says. "We're interested in better understanding the dichotomy of the salivary and blood immune systems."

• **HOST DEFENSE LABORATORY.** This lab, which is associated with the Department of Oral Biology as well as the Department of Periodontics and Allied Dental Programs, is focused on host defense and, in particular, phagocytic cell function. "Without neutrophils, the challenge of even normally 'harmless' bacteria is life-threatening; but even subtle cell abnormalities can increase sensitivity to infections, including periodontal diseases," explains **Michael Kowolik** (BDS, PhD medical genetics). "We are trying to understand these problems at a basic level, and also the intriguing phenomenon of 'overactive' responses to bacteria, which can lead to our own cells damaging our own tissues! Much of this is related to the production of so-called oxygen radicals, and we are able to measure these as well as how such systems are influenced by drugs, hormones, and fluoride. It is now also clear that the activity of defense cells is partly governed by genetics. We plan, with other international colleagues, to pursue this.

"We too have an interest in dental caries," Dr. Kowolik continues. "Together with Dr. Richard Gregory, we are working to understand how our defense cells cope (or don't) with *Streptococcus mutans*."

• **MOLECULAR BIOLOGY LABORATORY I.** This laboratory is concerned with diseases of the bone. "We study how genes turn on and off in bone cells," says **Joseph Bidwell** (PhD physical chemistry) of his work with colleague **Janet Hock** (BDS, PhD medical studies). "This activity provides insight into the molecular basis of bone diseases. Our research can be applied to bone anywhere in the body, including the jaw, where bone disease leads to periodontal problems and loss of teeth. We are particularly interested in bone diseases such as osteosarcoma, osteogenesis imperfecta (brittle bone), and osteoporosis."

• **BONE RESEARCH LABORATORY.** The principle focus of research in this laboratory is to investigate the adaptation of bone to mechanical forces. **Lawrence Garetto** (PhD physiology) says: "This is of particular importance in an area of dentistry such as orthodontics because mechanical forces are applied to teeth in order to move them. Bone that holds the teeth in place must adapt as the orthodontic treatment takes its course."

This research team also is interested in understanding how bone is able to adapt to biocompatible prosthetic devices such as dental implants.

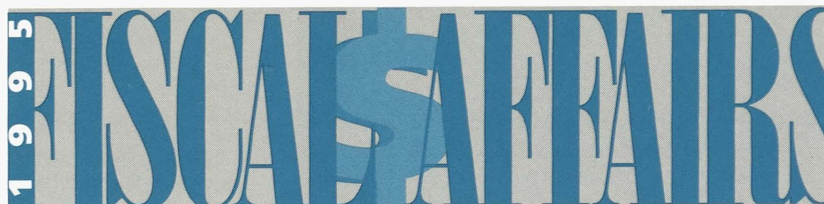
Complementing research under way in Oral Facial Development's Bone Research Laboratory are a number of clinical research projects headed by **Eugene Roberts** (DDS, PhD anatomy). Areas under study by Dr. Roberts include implant anchorage for orthodontic tooth movement, the healing and maturation of maxillary sinus bone grafts, and the relationship of bone metabolism to dental health.

• **MOLECULAR BIOLOGY LABORATORY II.** This laboratory studies patients that have genetically based dental and medical problems. "Patients with cleft lip and palate are of special interest to us," says **James Hartsfield Jr.** (DMD, PhD medical sciences). "We're interested in looking at what the chances are of a cleft developing—and what it is that helps a cleft to develop—in unborn children whose mothers are taking certain medications while they are pregnant. The answer may lie in what particular genes are inherited by the child. We are also interested in knowing if there are other genes that can predispose a person to develop a cleft lip and palate."

Also in this lab, **Mark Wohlford** (DDS, PhD pathology) uses the Polymerase Chain Reaction (PCR) technique to look at the altered states of genes. He has teamed up with oral pathology faculty members in an effort to find a method to detect oral cancer before it is clinically evident. "Gene p53 is a well-known tumor suppressor," he says. "We are trying to isolate fragments of p53 that may represent one or more sites where mutations occur, producing cancer. We hope to apply information that is already known about p53 in ways that will one day be useful in the diagnosis and prognosis of patients."

• **BIOMECHANICS RESEARCH LABORATORY.** "Biological approaches are the traditional tools of dental research," says **Thomas Katona** (DMD, PhD mechanical engineering). "But in our work, we apply the principles of engineering to analyze clinical and basic research problems. Some aspects of dentistry that are studied by mechanical engineers include dental implants, occlusion, temporomandibular joint (TMJ) dysfunction, and restorative materials." This laboratory is a component of the IUPUI Biomechanics and Biomaterials Research Center.

• **ORAL AND MAXILLOFACIAL IMAGING RESEARCH FACILITY.** This facility is preparing the dental school to employ advanced computer technology in many tasks related to dentistry, including direct digital radiography, image analysis by computer, and transmission of radiographic and other dental images back and forth between the school's computers and computers anywhere in the world. Says **Mostafa Analoui** (PhD electrical engineering): "We also are creating software that will give dentists the opportunity, for example, to study a three-dimensional, rotational view of a patient's root canal prior to treatment. And we are using electronic imaging to conduct research, such as studies of the effects of digital compression techniques on the diagnostic value of radiographs."



**INDIANA UNIVERSITY SCHOOL OF DENTISTRY
BUDGET
July 1, 1994—June 30, 1995**

GENERAL FUND

Operating Income: \$22,924,662.40

State Appropriations	57.40%
Student Tuition	19.51%
Clinic Income	14.00%
Other (reimbursement agreements and miscellaneous)	5.19%
Contract and Government for Administrative Services	3.90%

Operating Expenditures: \$22,924,662.40

Salaries, Full-time Faculty	24.29%
Supplies and Related Expenses	21.30%
Salaries, Full-time Staff	14.10%
University Assigned Costs for Central Services	13.21%
Fringe Benefits and Retirement	12.66%
Equipment	8.25%
Salaries, Part-time Instructors	4.12%
Wages, Hourly Employees	1.70%
Travel	.37%

Miscellaneous Income: \$2,258,186.35

(excluding research and gifts to the IU Foundation)

Auxiliary (student instrument issue, etc.)	63.04%
Other (fellowships, etc.)	13.13%
Continuing Education	12.69%
Service (sterilization monitoring service, etc.)	11.14%

Miscellaneous Expenditures: \$2,068,089.02

Auxiliary	62.68%
Service	12.97%
Continuing Education	12.70%
Other	11.65%



RESEARCH FUNDING

Extramural Research Funding

\$4,364,419

Intramural (IUSD) Research Support

\$ 626,620

School of Dentistry Research Total

\$4,991,039



Extramural Funding by Category

Research, Service, and Testing Programs Funded by Non-government Sponsors	\$2,722,072
Research Sponsored by Federal Government	\$1,521,195
Research Sponsored by Indiana University Funds (other than dental school funds)	\$105,616
Federal Training Grants and Educational Programs	\$15,536

Extramural Funding by Division

Oral Health Research Institute	68%
Periodontics and Allied Dental Programs	12%
Oral Biology	11%
Restorative Dentistry	3%
Research and Administrative Support	3%
Oral Facial Development	2%
Oral Surgery, Medicine, and Pathology	1%



Tuition at IUSD and Neighboring Schools

For first-year dental students 1994-95 academic year

	Resident	Non-resident
INDIANA UNIVERSITY	\$8,492	\$17,621
Case Western Reserve University	\$22,500	\$22,500
Marquette University (Wisc.)	\$12,470	\$24,140
Northwestern University (Ill.)	\$23,409	\$23,409
The Ohio State University	\$7,431	\$22,134
Southern Illinois University	\$4,500	\$13,500
University of Detroit Mercy	\$17,500	\$17,500
University of Illinois at Chicago	\$5,120	\$14,826
University of Kentucky	\$6,040	\$14,280
University of Louisville	\$5,710	\$13,950
University of Michigan	\$11,796	\$21,790
University of Missouri—Kansas City	\$10,150	\$19,114

Source: American Dental Association's *Supplemental Report on 1994/95 Dental School Tuition*, published by the ADA Survey Center

Clinic Facts 1994-95

Current patient population:	13,063	
	Patient	Clinic
	Appointments	Income
Predoctoral students:	59,428	\$1,955,113
Graduate students:	17,928	\$1,070,623
Dental hygiene students:	7,417	\$148,336
Totals:	84,773	\$3,174,072

Building on a Foundation of Alumni Support

IUSD Development Program
July 1994–June 1995

Gift total:
\$404,973.79

A Word of Thanks

The faculty, staff, and students of Indiana University School of Dentistry extend their deep appreciation to the hundreds of IUSD alumni and other friends and supporters who have given generously to the school during the past fiscal year. Donations of time and funds, many of which come from you, the graduates of this school, help IUSD perpetuate scholarship programs and fulfill a number of important new projects each year. These annual contributions play an irreplaceable role in the education of tomorrow's dental professionals—and for that, we sincerely thank you.



Doug Bartlow

Spirit of Philanthropy Award Presented to Lloyd J. Phillips

Dr. Phillips (right),
is congratulated by
his wife, Barbara,
and Dr. H. William
Gilmore, dean of
dentistry.

Dr. Lloyd J. Phillips, one of the IU dental school's most devoted supporters, was among the persons honored during the IUPUI campus' Spirit of Philanthropy Celebration, held at the University Place Hotel Ballroom on April 28, 1995.

The celebration annually salutes corporations, foundations, and individuals who make important differences in IUPUI's academic programs through their gifts and voluntary services.

Dr. Phillips, who is a 1954 graduate of the school and a longtime practitioner in Indianapolis, received his award from IUPUI Chancellor Gerald L. Bepko during the luncheon. Dr. Phillips was recognized for his long-standing leadership in organized dentistry and for his unwavering commitment to the Indiana Dental Association—IU School of Dentistry Pursuit of Excellence Fund. The Fund is nearing its goal of endowing a chair at IUSD.

In addition to his contributions to the school as a donor, Dr. Lloyd Phillips chairs the IDA's Endowment Committee and advises the dental school on fundraising matters as a member of the IUSD Development Committee.

Dr. Phillips served for many years as a part-time IU assistant professor of periodontics. His many leadership roles in dentistry have included the presidency of both the Indiana Dental Association (1979-1980) and the USA Section of the International College of Dentists (1992).

Dr. Phillips is a past recipient of the IDA's highest honor, the Maynard K. Hine Award; and a 1976 recipient of the IUSD Alumni Association's Distinguished Alumnus Award.

Federal Training Grants and Education Programs

Principal Investigators	Title	Budget
George Stookey James McDonald Richard Gregory	Short-Term Research Training	15,536

Research Sponsored by Federal Government

Principal Investigators	Title	Budget
George Stookey Yiming Li	Small Instrumentation Grant	5,149
Jack Schaaf John Valentine	Ryan White HIV/AIDS Dental Reimbursement Program Award	4,632
Joseph Bidwell	Hormonal Regulation by Bone Cell Nuclear Matrix Proteins	100,000
Richard Gregory Ned Warner	Secretory IgA and Serum IgA Immunity in HIV-1 Infection	67,784
Marilyn Lantz	Fibrinogen Binding and Virulence of <i>Porphyromonas gingivalis</i>	93,489
George Stookey	Pharmacological Effects of Fluoride, Year 4	676,128
Thomas Katona	Class V Composite Placement Methods and Cavity Designs	43,308
Marilyn Lantz	Fibrinogen Binding and Virulence of <i>P. gingivalis</i>	219,917
Janet Hock Joseph Bidwell	Hormonal Regulation of Bone Growth In Vivo	203,060
LaForrest Garner	High School Student Research Apprentice Program	21,000
Joseph Bidwell Marta Alvarez	Hormonal Regulation by Bone Cell Nuclear Matrix Proteins	45,991
Yoshiki Oshida	Mercury Replacement Program for Dental Alloys	40,737

Research, Service, and Testing Programs Funded by Non-government Sponsors

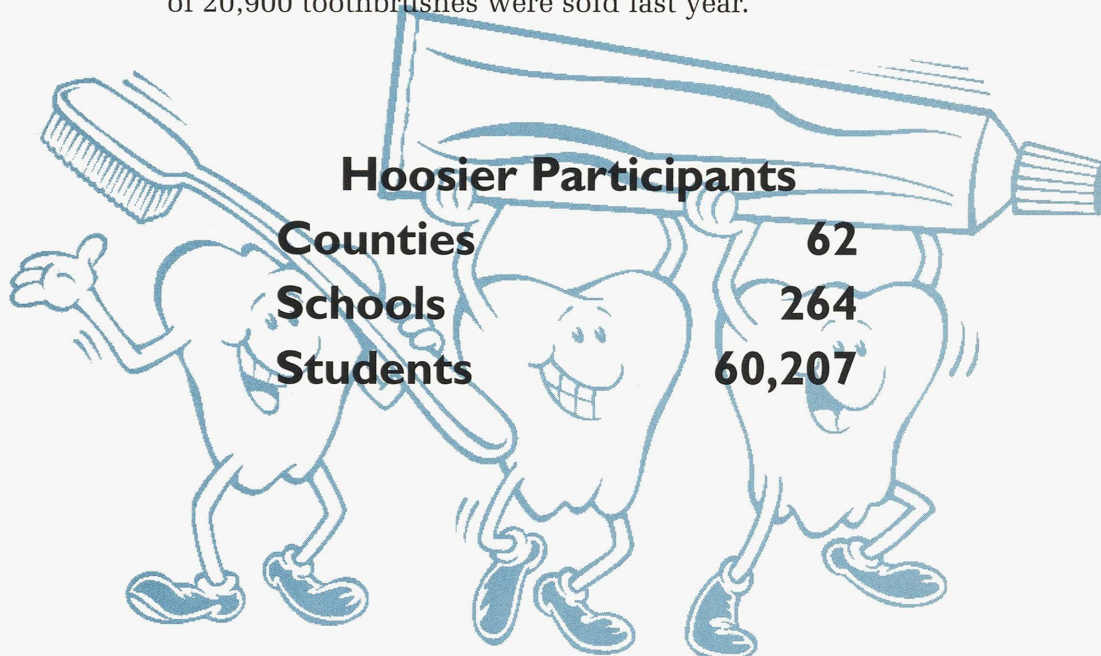
Principal Investigators	Title	Budget
George Stookey Ann Dunipace	Effect of Brushing Duration on Enamel Fluoride Uptake from NaF and MFP Dentifrices	25,883
Kichuel Park Bruce Schemehorn	Study of the Bioavailability and Substantivity of Antiplaque Agents Using a Plaque Glycolysis and Re-Growth Model	43,400
David Avery	Cerebral Palsy Clinical Fellowship	15,000
Bradley Beiswanger	The Effect of Experimental Chewing Gums and Mint Containing Softeners as Compared to a Commercially Available Chewing Gum and Mint	43,168
Bradley Beiswanger	Evaluation of a Novel Zinc-Containing Dentifrice for Calculus Formation	102,211
Chris Miller	Cleaning and Microbial Cleaning in a Dental Disinfectant	19,986
Chris Miller	Sterilization of High-Speed Handpieces in an Automatic Steam Sterilizer System	5,928

Principal Investigators	Title	Budget
Chris Miller	Comparison of Dental Instrument Cleaning Solutions	8,873
Lech Switalski	Antibiotics Influence Expression of <i>Staphylococcus aureus</i> Collagen Receptor Which Mediates Interaction of Staphylococci with Collagenous Substrata	8,999
Chris Miller	Cleaning and Microbial Cleaning in a Dental Disinfectant	2,220
David Avery	CLASS Project (outreach program for Indianapolis Public School #44)	5,000
Bradley Beiswanger	A Multi-Center, Parallel Design, Single-Blind Study Comparing an Experimental Agent, Root Planing, and Oral Hygiene in Reducing the Clinical Signs Associated with Periodontitis	152,000
Mark Saxen	A Comparison of Topically Applied 3% Diclofenac Gel and 2% Lidocaine as Treatments for Symptoms of Recurrent Oral Aphthous Ulcers	18,441
Chris Miller	Removal of Microbes from Dental Unit Water	19,934
George Stookey Ann Dunipace	Susceptibility of Various Restorative Materials to Straining by a Stannous Fluoride Dentifrice	37,345
E. Brady Hancock Donald Newell	A Multi-Center, Parallel Design, Single-Blind Study Comparing an Experimental Agent, Root Planing, and Oral Hygiene in Reducing the Clinical Signs Associated with Periodontitis	159,850
Bradley Beiswanger	The Effect of Chewing Gum on Dental Caries Incidence	648,009
James Hartsfield Mary Maze	A Study of Genetic Non-Penetrance in Crouzon Syndrome	1,900
Bruce Matis	A Clinical Evaluation of Opalescence in a Double Blind Study Using Experimental and Control Groups	63,513
Bradley Beiswanger	Calculus Inhibiting Superiority of a Brand Name Toothbrush Versus No Brushing	82,427
E. Brady Hancock Donald Newell Jonathan Gray	A Multi-Center, Parallel Design, Single-Blind Study Comparing an Experimental Agent, Root Planing, and Oral Hygiene in Reducing the Clinical Signs Associated with Periodontitis (supplemental)	10,000
David Avery	CLASS Project (IPS School #44)	10,000
Chris Miller	Comparison of Dental Cleaning Solutions	2,945
George Stookey Ann Dunipace	In Situ Evaluation on the Effect of an Improved Stannous Fluoride Dentifrice on Incipient Enamel Lesions	44,080
Chris Miller	Sterilization in a Flash Sterilizer	17,889
Wilmer Fife Keith Moore	Development of Fluoride-Releasing Dental Resins	26,510
Numerous Investigators	Contract Testing	1,146,561

Indiana Fluoride Rinse Program 1994-95

Once a week throughout the academic year, thousands of Indiana's elementary schoolchildren rinse their teeth with fluoride for one minute during the school day. They are voluntary participants of the Oral Health Research Institute's Indiana Fluoride Rinse Program, a community outreach effort that began in 1976 as a cooperative project of the Institute and the Indiana State Department of Health. The OHRI program is administered by Sue Kelly and coordinated by Druscilla Kriech. For the cost of one dollar last year, students received a toothbrush and were entitled to participate in the rinse program for 32 weeks. The program remains a popular source of preventive care for many Indiana children: the number of students participating last year was approximately 2 percent higher than the number of students participating during the previous year.

For a nominal fee, the Indiana Fluoride Rinse Program also sells toothbrushes to charitable organizations. A total of 20,900 toothbrushes were sold last year.



Incoming School of Dentistry Class Profiles 1995-96 Academic Year

	DENTISTRY DDS '99	DENTAL HYGIENE ASDH '97	DENTAL ASSISTING Certificate '96	GRADUATE EDUCATION (master's degrees, PhD degrees, and certificate programs)
APPLICANTS	817	202	54	492
Indiana Residents	162	199	54	not tallied in central office
Non-residents	655	3	0	not tallied in central office
Men	563	2	2	not tallied in central office
Women	254	200	52	not tallied in central office
Minority Applicants	70	4	4	not tallied in central office
Matriculating Students	98*	55	28	32
STUDENTS				
Indiana Residents	70	54	28	7
U.S. Residents (excluding Indiana)	28	1	0	12
Students from Other Countries	1**	0	0	13***
Men	71	1	1	23
Women	27	54	27	9
Minority Students	4	0	2	0
Average GPA (4.0 scale)				
<i>Overall</i>	3.21	3.19	2.70	not tallied
<i>Science</i>	3.16			
Tuition (excluding ancillary fees)				
<i>In-state</i>	\$8,960	\$2,835	\$3,068	\$8,960
<i>Out-of-state</i>	\$19,200	\$8,700	N/A	\$19,200
Percent of In-state Tuition				
Increase from Previous Year	5.5%	6%	6%	5.5%

* Actual class size of 101 includes two students who are repeating their first academic year and one student who has transferred from the medical school.

** Zambia

*** Brazil, Canada, Colombia, Costa Rica, Greece, Mexico, Saudi Arabia, Syria, Thailand, Venezuela

TOTAL DENTAL SCHOOL ENROLLMENT

358	(4 dentistry classes)
104	(2 dental hygiene classes)
28	(1 dental assisting class)
105	(12 graduate programs)
<hr/>	
595	IUSD students

CLASSES OF 1995

Certificates in Dental Assisting

Fort Wayne

Tonya M. Biehl
Wendy L. Burchett
Stacy T. Dickmeyer
Cheryl L. Dunning
Tricia N. Gustin
Regina K. Henry
Tina M. Kelley
Misty J. Link
Andria S. McAbee
Deborah R. Meyer
Patricia A. Music
Michelle A. Patterson
Amy M. Pongratz
Michael L. Reed
Lori A. Sallach
Julia M. Seprodi
Debra K. Wyatt

Indianapolis

Tambra L. Allbright
Kristi R. Blaker
Sheri C. Carroll
Jade A. Dyer
Julie L. Eberts
Nancy E. Gardner
Jessica R. Gibson
Amy K. Gill
Melissa A. Gipe
Julie R. Hubbell
Mary E. Masten
Elizabeth A. McVeigh
Jodi S. Miller
Lori L. Napier
Danielle M. Perry
Gina M. Schroeder
Laura A. Spitzer
Kimberly A. Starrett
Rachael A. Watkins

Northwest

Rebecca A. Adkins
Susan M. Govert
Karen S. Howerton
Linda Jones
Suzan M. Kellner
Wendy Mares
Heather Samansky
Deanna Smith
Earnest Smith

South Bend

Tanya Acito
Rebecca L. Bentley
Mandy Lyn' Coffey
Kristin E. Fine
Linda Ann Grove
Tomea D. Marshall
Kathleen Lynn
Martens
Melissa K.
McCormick
Rebecca Sue Reed
Amy Lee Rowell
Reneé Sipe

Associate of Science Degrees in Dental Laboratory Technology

Fort Wayne

Mary Andrews
Adam McFall
Kevin Orthman
Mark Rondeau
Andrea Tarnopol

Associate of Science Degrees in Dental Hygiene

Fort Wayne

Michelle M.
Anderson
Melissa N. Beaverson
Amy J. Clements
Tonya Jo Cline
Jennifer L. Cook
Tanya G. Cornish
Kimberly R. Davidson
Hilary E. Hamby
Susan R. Jackson
Anna K. Jaskiewicz
Stacy R. Kennedy
Amanda B. McArdle
Deemia Dawn Mann
Melinda A. Mullins
Maureen A. Ramthun
Tammy M. Storie
Staci J. Walters
Jill A. Waters

Indianapolis

Brandy D. Ballard
Patricia S. Barlow
Lynn R. Bates
Karla J. Bredemeyer
Laura A. Bynum
Melissa A. Camden
Krista M. Campbell
Nanette M. Campbell
Melissa L. Cmehil
Erin A. Cullen
Kasey L. Cundiff
Dena J. Deiser
Tiffany K. Dixon
Denise M. Edens
Dee L. Fratus
Julie A. Hardwick
Elizabeth A. Hartman
Michele L. Heck
Trina K. Henderson
Michele L.
Hendrickson
Meggin J. Hesler
Denise M. Holder
Chassidy R. Kelley
Patty J. Kern
Kimberly S. Kernodle
Tricia A. Linville
Michelle L. Luck
Annette D. McNew
Lisa M. Mellberg
Julie D. Nelson
Moiria G. Nikirk
Angela S. Patterson
Lori L. Perkins
Jennifer L. Perry
Lora L. Pope
Stephanie A. Scott
Patricia M. Snodgrass
Kathy L. Taulman
Susan K. Taylor
Trinity M. Tungate
Trinh T. Vu
Carrie B. Webster
Susan E. Wild
Celli D. Williams
Deanna S. Williams
Rita G. Williams
Kathy L. Wilson
Kimberly S. Wilson

Northwest

Tamara Lynne Bailey
Carie Marie Birky
Julie M. Carroll
Renae Dewey
Dori Elizabeth Droza
Janet Lynn Garcia
Lesley Anne Haugh
Eileen Dawn Kennoy
Julie Renae Kobe
Karen L. McMillan
Melissa Messer
Jodie L. Nemeth
Debra Marie Owens
Kurt Emery Pramuk
Gina Santostefano
Kyle Swerdon
Tricia Jo Turner
Tracey Lynn Wozniak
Leslie Ann
Zimmerman

South Bend

Lisa Thompson Amos
Kathryn Ann
Barnhart
Kimberly Suzanne
Beistle
Jennifer Joel Bentley
Carol Lynn
Bombagetti
Ann Marie Burke
Kimberly M. Clark
Kinlynn Kay Garrison
Lisa M. Heronemus
Denise Hitchins
Lori W. Hohlt
Buffy Sue Horvath
Julia Jane Hupp
Susanna K. Jenkins
Theresa Ann Kulik
Jill M. Mankowski
Michelle Lynn Myers
Cynthia Ann
O'Connor
April Lee Parrett
Lynn Ann Sherron
Kary Alyce Struck
Donna Ann Tomich

Doctor of Dental Surgery Degrees

Jeffrey Todd Allen
Chad Glenn Ashley
John Charles Babcock
Mark A. Barr
Darren Craig Barrows
Amy Lorraine Becker
Richard Leland
Beckermeyer Sr.
Christine Bishop
Bret Anthony
Bologna
Robert William
Brandhorst
Amara Shereen Burki
Brent Steve Butler
Dayton Cambra
Michael David
Danner
Brett Michael DiSalle
Michael Evan Dixon
Jennifer Renee
DuChane
Kimberly Anne
Edwards
Todd Michael Evans
Ayman Farah
Derek Raymond
Fleitz
John Dowd Folkers
Timothy James Frey
Thomas Mitchell
Gilbert
Joseph Edward
Golding Jr.
Carole Marie Grabill
Bret Michael Green
Joseph Randall Gregg
Omar Wafai Hakki
Todd Eugene
Hamilton
Bradley Robert
Handick
Tamara Lynn Hiester
Matthew Cleve Hill
Christopher Charles
Hulen
Kristin M. Gross
Jackson
T. Ryan Jackson
James Patrick Klinger
Gregory Jay Klinker
Scott Kooistra

Graduate Programs

(Graduates July 1994 through June 1995 and Titles of Theses and Dissertations)

Dennis Michael Lambert
 John K. Loudermilk
 Daniel J. Lundquist
 Mychel Lynn Macapagal
 David Clay Miller
 Guy James Moore
 Mathew Anthony Negrelli
 Konstantin Pavolotsky
 Michael S. Perez
 Tamela Lynn Rees
 Linda Anne Regan
 Jeffrey James Robertson
 John A. Roshel III
 William G. Rouch Jr.
 Edward Matthew Sammons
 Gary Allen Schluckebier
 Rebecca A. Schmorrt
 Dedi Lynn Shepherd-Turner
 Bryan Steven Sigg
 Lalaine Y. Smith
 Mary Ellen Bender Snyder
 Luke William Staley
 Julie Lynn Stante
 Randy Allen Stauffer
 Suzanne Marie Stolarz-Sisk
 Lana Raejean Stoll
 Brian Paul Tate
 Todd Andrew Taylor
 Douglas Kendell Tolle
 Isabel Vahedi-Johnson
 Doris Ann VanNatter
 Tamara Lynn Watkins
 Michelle Louise Wittler

Dental Diagnostic Sciences

(MSD degree)

Madeline Howard
Determination of PGE₂ levels in saliva of myofacial pain dysfunction syndrome patients using ELISA

(MS degree)

Edwin T. Parks
 (profile on page 22)

Dental Sciences

(PhD degree)

Hwai-nan Chang
Relationship of wound healing and angiogenesis to the cell kinetics of the initial osteogenic response in orthopedically expanded anterior maxillary suture in the rat

Endodontics

(MSD degrees)

Allen W. Meier
 (profile on page 22)

Mu Mu Min
 (profile on page 22)

Operative Dentistry

(MSD degrees)

Randa M. ElSalawy
Influence of water sorption on the transverse strength of different light activated composite resins

Enrique Fuentes Meré
Cohesiveness of three different direct gold restorative materials

Abdulrahman N. Solaihim
Comparison of physical properties of dental stone materials containing a chromatic indicator with traditional dental stones

Oral and Maxillofacial Surgery

(Certificates)

Christopher W. Potee

Kurtis L. Williams

Orthodontics

(MSD degrees)

Robert F. Becker
Effect of hypergravity (2g) on osteoblast precursor cells in the periodontal ligament of the rat

Marybeth Brandt
Evaluation of tensile bond strength, fluoride release, hardness and solubility of a fluoride containing adhesive resin

Brian Halton
Tensile strength, hardness and fluoride release of a newly developed orthodontic bracket adhesive

Charles A. Hurst
Morphologic changes in the mandibular condyle of growing Sprague-Dawley rats after

electrolytic lesioning of the trigeminal motor nucleus

Luis Eduardo Martines
Evaluation of hypergravitational load on mandibular condyle growth and osteoblast differentiation

Pediatric Dentistry

(MSD degree)

Nora Najeeb Tleel
Comparison of neodymium:yttrium, aluminum, garnet laser effects between primary and permanent enamel of disassociated teeth

(Certificate)

Bret Jerger

Periodontics

(MSD degrees)

Beena Patel Deshmukh
 (profile on page 22)

Robert S. Matthews
Linear tomographic imaging in the mandible: an analysis of dimensional accuracy

Samir F. Zakaria
Effect of different types of instrumentation on calculus removal in the furcations in vitro

(Certificate)

Shing-zeng Dung

Preventive Dentistry

(MSD degrees)

E. Angeles Martinez Mier
Preventive dentistry attitudes and actions in Mexico City: survey of private and institutional practice dentists

Taein Kim
In vitro thin-tooth-slice model for the development and study of secondary enamel caries

Mark E. Mallatt
An Oral Survey of Indiana Children 1992-1993

James S. Prawat
Enamel caries with glass ionomer orthodontic bracket bonding: an in vitro study

Prosthodontics

(MSD degrees)

Christine Bishop
Wear characteristics of four feldspathic porcelains

Leo Fung
Study on bond strength of fired porcelain on nitrided pure titanium

Aye Min
 (profile on page 22)

Hisham Osman
Effect of vibration on the surface porosity of dental stone

Ed Owens
Multicenter interracial study of facial esthetics

Postdoctoral Profiles

Photos by Susan Crum



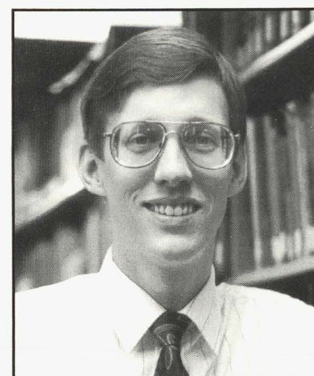
Beena Patel Deshmukh

Beena Patel Deshmukh

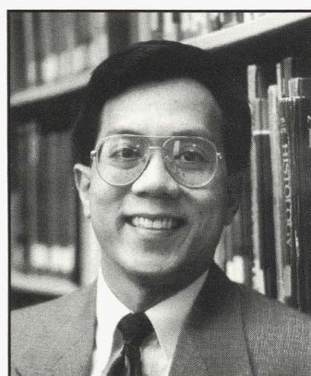
Hometown: Chicago, Ill.; **Dental education:** DDS'91, Loyola University of Chicago; **IU graduate program:** periodontics (major), oral pathology (minor); **Thesis:** *Quantitative assessment of the therapeutic benefits provided by Sofscale™ calculus scaling gel and determination of pH changes in the diseased gingival sulcus during its application period*; **Degree:** MSD, May 1995; **Plans:** To enter private practice in the Chicago area—but first a one-month trip to the Canadian Rockies!

Allen W. Meier

Hometown: Indianapolis; **Dental education:** DDS'90, Indiana University; **IU graduate program:** endodontics (major), oral pathology (minor); **Thesis:** *Interpretation of chemically created periapical lesions using direct digital imaging*; **Degree:** MSD, June 1995; **Plans:** To serve as a staff endodontist at Hickam Air Force Base in Hawaii.



Allen W. Meier



Aye Min

Aye Min

Hometown: Rangoon, Burma; **Dental education:** BDS'78, Institute of Dental Medicine (Rangoon) and DMD'85, University of Connecticut; **IU graduate program:** prosthodontics (major), dental materials (minor); **Thesis:** *Analysis of strain-transfer at bone-implant interface with different types of superstructure restorative materials (Part I. Experimental strain gauge study; Part II. Finite element analysis)*; **Degree:** MSD, June 1995 (also completed the certificate program in maxillofacial prosthetics in 1994); **Plans:** To set up a prosthodontic practice in northern California.

Mu Mu Min

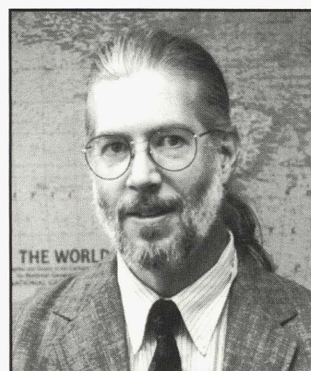
Hometown: San Francisco, Calif.; **Dental education:** DMD'85, University of Connecticut; **IU graduate program:** endodontics (major), oral pathology (minor); **Thesis:** *In vitro evaluation of effects of ultrasonic root-end preparation on resected root surfaces*; **Degree:** MSD, June 1995; **Plans:** To associate with another endodontist in the Vacaville, Calif., area.



Mu Mu Min

Edwin T. Parks

Hometown: Havana, Fla.; **Dental education:** DMD'81, University of Kentucky; **IU graduate program:** dental diagnostic sciences (major), oral pathology (minor); **Thesis:** *Effects of primary beam manipulation on image quality*; **Degree:** MS, June 1995; **Plans:** To pursue a private practice in oral medicine in Tallahassee, Fla., to play in my garden, and to wear shoes as little as possible.



Norris Richmond retires from IUSD

Norris L. Richmond, professor of operative dentistry, launched a career in dentistry in 1952 by enrolling in a 16-week dental technician course at the U.S. naval base in Great Lakes, Ill.

And, 43 years later, he ended an exceptional career as a teacher of dentistry by speaking heartfelt words of thanks to the family, friends, colleagues, and students who gathered to honor him at a dental school farewell reception on June 19, 1995, his 64th birthday.

Dr. Richmond told his audience of well-wishers that his Great Lakes training led to assignments as a dental hygienist in the U.S. Air Force at various locations, including Des Plaines, Ill., Yokahama, Japan, the Philippine Islands, and Taipei, Taiwan. His interest chairside was soon piqued by his observations of the clinics' dentists.

After an honorable discharge from the service in 1956, the Gary, Ind., resident headed for Indiana University, where he earned a bachelor's degree in public health before enrolling at IUSD. He graduated from dental school in 1963.

Dr. Richmond took for granted that a private dental practice lay in his future, but IUPUI Chancellor Emeritus Maynard K. Hine, then dean of dentistry, had other plans. He persuaded the young dentist to stay on at the school to teach and to enroll in graduate studies. (Dr. Richmond conducted a part-time practice from 1963 to 1966.)

Earning an MSD degree in operative dentistry in 1965, Dr. Richmond was then appointed to the Department of Operative Dentistry, becoming the second African American to join the ranks of the school's full-time faculty (and the first to retire). He was tenured in 1973 and promoted to professor in 1980. He holds the distinction (along with colleague David Hennon, professor of pediatric dentistry and orthodontics) of having a perfect record of participation in all 25 of the dental school's teaching conference retreats, presented from 1964 to 1989.

Throughout his career Dr. Richmond voiced his pleasure and professional satisfaction in working in the clinical and laboratory environments with dental students who, he often reminded us, "keep you young." An immensely popular professor, he often assumed assignments above and beyond the call—serving, for example, as director for 17 years of what used to be known as the "Thursday Night Clinic," when students were permitted to perform dentistry on other students in the

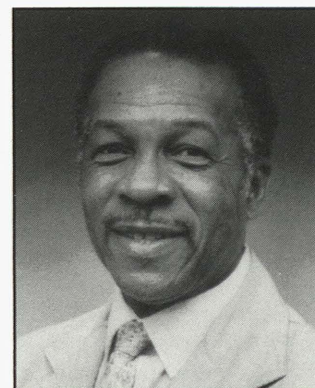
operative dentistry clinic after hours. (The program was disbanded in 1988.) Dr. Richmond holds a "Teacher of the Year" award from the DDS Class of '72 and an "Extra Mile Award" from the DDS Class of '81.

One of the school's great humorists, Dr. Richmond often used the power of laughter to establish a relationship with students, faculty, and staff. He also brought his love of music into the school—he is a self-taught organist—by directing the IUSD holiday choir for 18 years.

Dr. Richmond was active in continuing education and community services. His biography is listed in several issues of *Who's Who Among Black Americans*. In 1985 he received a "Minority Recognition Award" from a leadership development group sponsored by the Indianapolis Chamber of Commerce.

Dr. Richmond is a past president of the Indiana Public Health Dentists and a former dental director at the Indiana Girls School. He holds honorary membership in the Psi Omega dental fraternity and is a member of Omicron Kappa Upsilon dental honor society.

Shortly before his retirement, Dr. Richmond received a 1995 Glenn W. Irwin, Jr., M.D. Experience Excellence Recognition service award, which was presented at the annual IUPUI Chancellor's Honors Convocation.



Norris Richmond

Dental assisting secretary Lois Duncan retires



Mike Halloran

Lois Duncan

At the end of the 1994-95 academic year, the Dental Assisting section of the Department of Periodontics and Allied Dental Programs bid farewell to secretary Lois R. Duncan, who retired May 1 after nearly 15 years of dedicated service.

Long an admirer of dental assistants and the rewarding and important role they fulfill within the profession, Lois once entertained the idea of becoming an assistant herself. With her eye on new career opportunities in the 1970s she enrolled in the dental assisting

program at Aristotle College.

But during her internship in a private practice, she began to realize that hands-on dentistry wasn't going to be her greatest strength. "I still remember that one of the first patients I assisted for was having several teeth pulled," says Lois with a shudder. "That procedure began to make the dental receptionist's chair look very appealing to me."

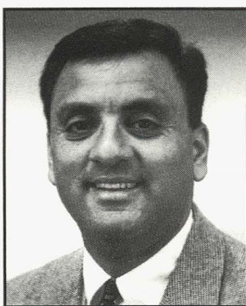
She found the perfect dental work environment for herself in 1980, when Professor Marjory Carr, then head of IU's dental assisting program, hired Lois as a secretary. Lois enjoyed working with Professor Carr and was worried when, one year into Lois' stint at IU, Professor Carr retired and Professor Pauline Spencer was appointed. "I was a little frightened of my new boss," says Lois. "I kept thinking, She can't be as nice as she seems. But Pauline Spencer *is* that nice, and she was wonderful to work with."

Lois was born in Martinsville and has lived in Indianapolis since early childhood. She is divorced with two sons—Edgar Duncan, Noblesville, and Dennis Smith, Cloverdale—and 10 grandchildren.

As busy as Lois was on the job—her duties included helping with office activities related to the dental hygiene program—she was worried that she would have trouble adapting to a retired person's schedule. The feeling vanished within a few days. "I find it easy to keep the hours filled now," she says. She spends several days and evenings a week involved with church work and bible studies, and devotes lots of time to her family and friends.

Lois says that she cherishes her years of employment at IU. "There was always a new class to look forward to each fall," she says. And she won't forget the thoughtfulness of the many dental assisting students who passed through the program in those 15 years. "I received many little gifts and thank-you notes from them over the years," she says. "It was nice to know I was appreciated."

New Full-time Faculty Appointments



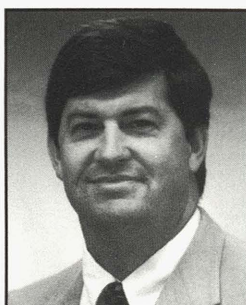
Rafik A. Abdelsayed

Clinical Assistant Professor of Pathology, Department of Oral Surgery, Medicine, and Pathology. B.D.S., Cairo University, Egypt, 1980; certificate (oral pathology), Washington University, St. Louis, 1984; M.S. (oral pathology), Indiana University, 1990; D.D.S., IU, 1993. Former private practitioner in Cairo and director of the special-care clinic for the Department of Health in Egypt. Diplomate,

American Board of Oral Pathology, 1991. Fellow, American Academy of Oral Pathology, 1991. Full-time IU visiting professor from 1993 to 1995, serving as director of the dental school's Emergency Care Clinic.

Ted O. Allerheiligen

Assistant Professor of Operative Dentistry, Department of Restorative Dentistry. B.A., Trinity University, San Antonio, 1974 (graduated cum laude); D.D.S., University of Texas Health Science Center at San Antonio, 1980. Private practice experience includes 8 years in a solo practice in San Antonio (1982-1990). Member, Alpha Chi Honor Society. Taught part time on the IU faculty from 1991 until his appointment to the full-time faculty.



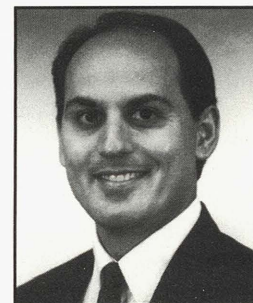
Mark W. Anderson

Assistant Professor of Oral and Maxillofacial Surgery, Department of Oral Surgery, Medicine, and Pathology. B.S., University of Utah, 1983; D.D.S., Loma Linda University, 1988; M.S. (oral and maxillofacial surgery), The Ohio State University, 1992. Diplomate, American Board of Oral and Maxillofacial Surgery, 1994. Fellow, American Association of Oral and Maxillofacial Surgeons. Former

private practitioner in Santa Maria, Calif. Served last year as secretary-treasurer of the Central Coast Dental Society Board of California.

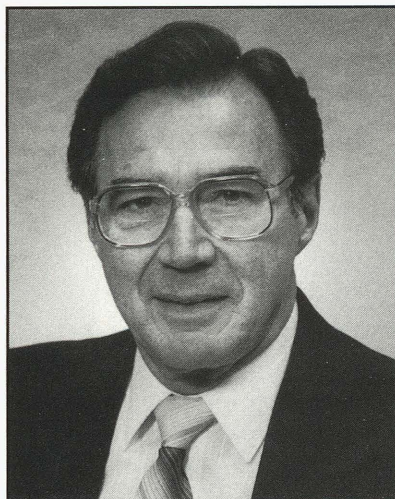
Eugene A. Margiotti

Clinical Assistant Professor of Oral and Maxillofacial Surgery, Department of Oral Surgery, Medicine, and Pathology. B.S., Purdue University, 1986; D.D.S., Indiana University, 1990; IU certificates (prosthodontics and maxillofacial prosthetics), 1993; candidate for IU master's degree in dental materials. Recipient of the I. Lester Furnas Graduate Prosthodontics Award for Technical and Clinical Proficiency, 1991, and a scholarship from the John F. Johnston Society, 1993. Taught part time on the IU faculty from 1993 until his full-time appointment.

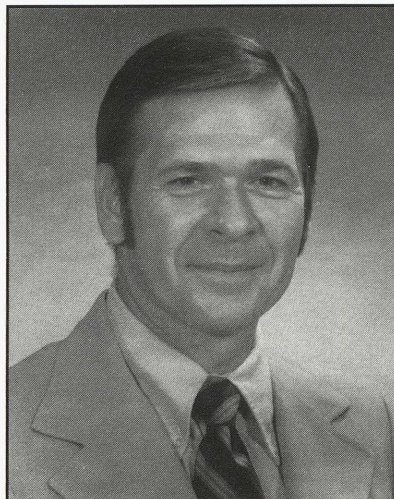


Darlene D. West

Assistant Professor of Hospital Dentistry, Department of Oral Surgery, Medicine, and Pathology. A.S.D.H., Indiana University, 1968; D.D.S., IU, 1981; certificate (general practice residency), IU, 1982. Private practitioner, Tipton, Ind., since 1982. Staff dentist, Arcadia Development Center and New Horizons Development Center, Arcadia, Ind. Member, Omicron Kappa Upsilon national dental honor society. Taught part time on the IU faculty from 1981 until her full-time appointment.



David Dickey



Bruce Mitchell

Faculty Obituaries

David Dickey

David M. Dickey, associate professor emeritus of dental diagnostic sciences, Brownsburg, died October 10, 1995. He had retired from the IU faculty in 1992.

Dr. Dickey joined the IU faculty while pursuing IU's MSD degree in oral diagnosis/oral medicine, which he received in 1974. He was a 1955 dental graduate of The Ohio State University and had practiced full-time in Columbus, Ohio, for 12 years. He was a Captain in the Army Dental Corps at Fort Ord, Calif., from 1955 to 1957.

Dr. Dickey was appointed clinical chair of the undergraduate division of oral diagnosis/oral medicine in 1974, a post he held until his retirement.

During his tenure Dr. Dickey taught a wide range of clinical and didactic courses to students of dentistry, dental hygiene, and graduate dentistry. For much of his 20-year career with IU he was active in various research organizations, and presided over the

Indiana Section of the American Association for Dental Research in 1981-82. After serving as secretary-treasurer of Theta Theta Chapter of OKU for several years, he was elected to a one-year term as president in 1990.

Dr. Dickey is survived by his wife, Cherie; daughters Madeline Shoemaker and Marilyn Reynard; sons David and Steven Dickey, and Charles and Thomas Haynes; 11 grandchildren; and four great-grandchildren.

Bruce Mitchell

Bruce V. Mitchell, a former assistant professor of dental practice administration, Greenwood, died September 23, 1995. He served on the IU faculty from 1972 to 1984.

Mr. Mitchell is perhaps best remembered for the role he played in the school's former TEAM clinic as a student counselor and practice management adviser. He taught practice administration courses to first- and third-year dental students, and presented management seminars to fourth-year students.

Mr. Mitchell was a 1960 graduate of IU's MBA program. He also held degrees from Indiana Central University and Hanover College. He was an Army veteran of World War II.

Before joining the IU faculty, Mr. Mitchell headed the Adult Education Department at Tech High School, Indianapolis. He had also been a vice president of Indiana Vocational Technical College.

Mr. Mitchell is survived by sons Bruce and Michael; daughter Lisa Doyle; parents Bruce and Janice Mitchell; and three grandchildren.

Achievements

PUBLICATIONS

July 1, 1994—June 30, 1995

Academic titles of IUSD authors appear only at the first entry of their names. Names without titles indicate authors from institutions other than the IU School of Dentistry.

ARTICLES

Advances in Pediatrics

Premature exfoliation of teeth in childhood and adolescence, 41: 453, 1994. By James Hartsfield Jr., associate professor of oral facial genetics (Dentistry) and of medical and molecular genetics (Medicine)

Aesthetic Plastic Surgery

Effects of a positively charged biomaterial for dermal and subcutaneous augmentation, 18: 413, 1994. By Barry Eppley; Don-John Summerlin, associate professor of oral pathology; Christopher Prevel; and A. Michael Sadove, professor of plastic surgery (Medicine) and of oral and maxillofacial surgery (Dentistry)

American Journal of Dentistry

Sterilization efficacy of a forced-air, dry heat sterilizer, 7: 220, 1994. By William Hohlt, associate professor of orthodontics; Margie Sheldrake, research associate in oral biology; and Chris Miller, professor of oral microbiology (Dentistry) and of microbiology and immunology (Medicine)

Sterilization of reusable air/water syringe tips, 7: 348, 1994. By Tamara Watkins (DDS'95); Margie Sheldrake; Chris Miller; and Charles Palenik, professor of oral microbiology

Acidogenicity of high-intensity sweeteners and polyols, 8: 23, 1995. By Kichuel Park, professor of preventive and community dentistry; Bruce Schemehorn, research associate in the Oral Health Research Institute (OHRI); George Stookey, professor of preventive and community dentistry; Harriett Butchko; and Paul Sanders

American Journal of Orthodontics and Dentofacial Orthopedics

Engineering and experimental analyses of the tensile loads applied during strength testing of direct bonded orthodontic brackets, 106: 167, 1994. By Thomas Katona, assistant professor of orthodontics (Dentistry) and of mechanical engineering (Engineering and Technology); and Jie Chen, assistant professor of orthodontics (Dentistry) and of mechanical engineering (Engineering and Technology)

The effects of load location and misalignment on shear/peel testing of direct bonded orthodontic brackets—a finite element model, 106: 395, 1994. By Thomas Katona

*Clinical effectiveness of fluoride-releasing elastomers. I: Salivary *Streptococcus mutans* numbers*, 107: 293, 1995. By Thomas Wilson

and Richard Gregory, associate professor of oral microbiology (Dentistry) and of pathology and laboratory medicine (Medicine)

Archives of Oral Biology

Degradation of insoluble bovine collagen and human dentine collagen pretreated in vitro with lactic acid, pH 4.0 and 5.5, 39(10): 901, 1994. By Shing-Zeng Dung (PhD'93); Yiming Li, OHRI associate scientist (Dentistry) and adjunct associate professor of pharmacology and toxicology (Medicine); Ann Dunipace, OHRI associate scientist; and George Stookey

Bio-Medical Materials and Engineering

Fractal dimension analysis of mandibular bones: toward a morphological compatibility of implants, 4(5): 397, 1994. By Yoshiki Oshida, associate professor of dental materials; Azza Hashem, former special student in restorative dentistry; T. Nishihara; and Manolito Yapchulay, MSD degree candidate in prosthodontics

Experimental development of a chitosan-bonded β -tricalcium phosphate bone filling paste, 4(6): 439, 1994. By Michio Ito, adjunct associate professor of dental materials; Akimichi Miyazaki; Toshio Yamagishi; Hiroshi Yagasaki; Azza Hashem; and Yoshiki Oshida

Some mechanistic observation on water-deteriorated dental composite resins, 5(2): 93, 1995. By Yoshiki Oshida, Azza Hashem, and Randa Elsalawy (MSD Operative Dentistry '94)

Development of photo-sensing bulge ductility tester, 5(2): 125, 1995. By Yoshiki Oshida; Masasi Miyazaki, visiting scientist in restorative dentistry; Hisham Osman (MSD Prosthodontics '94); and Loretta Xirouchaki, MSD candidate in operative dentistry

Bone and Mineral

The effect of fluoride therapy on blood chemistry parameters in osteoporotic females, 27: 13, 1994. By Richard Jackson, OHRI research associate; Sue Kelly, OHRI assistant director of clinical research; Timothy Noblitt, OHRI research technologist; Wu Zhang, OHRI research technologist; Ann Dunipace; Yiming Li; George Stookey; Barry Katz, associate professor of medicine (Medicine) and of preventive and community dentistry (Dentistry); E. Brizendine; S. Farley; and D. Baylink

Caries Research

An in vitro model for studying the efficacy of fluoride dentifrices in preventing root caries, 28: 315, 1994. By Ann Dunipace; Wu Zhang; Andrew Beiswanger, OHRI research technician; and George Stookey

Detection of mutans streptococci in secondary carious lesions using immunofluorescent techniques and confocal laser scanning microscopy, 29: 198, 1995. By Carlos Gonzalez-Cabezas, PhD degree candidate in dental sciences; Yiming Li; Timothy Noblitt; Richard Gregory; Abdel Kafrawy, professor of dental diagnostic sciences; and George Stookey

Community Dentistry and Oral Epidemiology

Review of fluorosis risk of self-applied topical fluorides: dentifrices, mouthrinses and gels, 22: 181, 1994. By George Stookey

Compendium of Continuing Education in Dentistry

Dental caries vaccines: science and status, 15(10): 1282, 1994. By Richard Gregory

Educational and research aspects of a school-based sterilization monitoring service, 15(12): 1460, 1994. By Chris Miller

Dental Clinics of North America

Antimicrobials in periodontal practice, 38(4): 719, 1994. By E. Brady Hancock, professor of periodontics; and Donald Newell, associate professor of periodontics

Dental Medium

Bond strength of resin cements to microfilled composite, 3(1): 8, 1995. By Edward DeSchepper, associate professor of operative dentistry; William Tate; and John Powers

Dietetics in Developmental and Psychiatric Disorders

Update on nicotine addiction, 14(1): 1, 1995. By James McDonald Jr., professor of preventive and community dentistry

Indiana Branch American Society for Microbiology News

Streptococcus mutans fimbriae: relationship to human dental caries, August 1994, page 3. By Margherita Fontana, PhD degree candidate in dental sciences; and Richard Gregory

Inflammopharmacology

Comparative effects of two bisphosphonates (clodronate and ZK 90695) on hydroxyapatite-primed human neutrophil chemiluminescence, 2: 369, 1994. By Michael Kowolik, adjunct professor of oral biology and periodontics; and P. Hyvönen

International Journal of Periodontics and Restorative Dentistry

Clinical evaluation of guided tissue regeneration in the treatment of grade II molar furcation invasions, 14: 255, 1994. By James Mellonig; Braden Seamons; Jonathan Gray, clinical assistant professor of periodontics; and Herbert Towle

Journal Indiana Dental Association

The prevalence of periodontal abscess, 73(4): 18, 1994. By Jonathan Gray, Deidra Flanary, and Donald Newell

Tuberculosis: Indiana's status and implications for dental health care workers, 73(4): 26, 1994. By Karen Yoder, assistant professor of preventive and community dentistry (IUPUI campus) and visiting instructor in dental education (IUPUI Fort Wayne campus)

Striving for professionalism: moral courage in dentistry, 73(4): 36, 1994. By Lynn Moehl (DDS'94)

Philosophical basis of outreach, 74(1): 8, 1995. By Charles Smith, associate professor of preventive and community dentistry; and John Stone (DDS'50)

Dentistry's outreach to the needy. Who is responsible?, 74(1): 14, 1995. By Charles Poland III, associate professor of pediatric dentistry; and Jennifer Kugar, instructor in operative dentistry

Outreach in Indiana communities: more than meets the eye, 74(1): 21, 1995. By Karen Yoder and Keith Yoder (DDS'63)

Outreach at Indiana University School of Dentistry: giving back to the community, 74(1): 32, 1995. By Arden Christen, professor of preventive and community dentistry; and Joan Christen, research associate in oral biology

Journal of Bacteriology

*Purification and characterization of two forms of a high-molecular-weight cysteine proteinase (porphypain) from *Porphyrromonas gingivalis**, 176(15): 4549, 1994. By Pawel Ciborowski; Makoto Nishikata; Roger Allen; and Marilyn Lantz, professor of oral biology

Journal of Biomechanics

Stress analysis of bone modeling response to rat molar orthodontics, 28(1): 27, 1995. By Thomas Katona; Nasser Paydar, associate professor of mechanical engineering (Engineering and Technology) and adjunct associate professor of orthodontics (Dentistry); Hasan Akay; and Eugene Roberts

Journal of Clinical Dentistry

The clinical effect of dentifrices containing stabilized stannous fluoride on plaque formation and gingivitis—a six-month study with ad libitum brushing, 6 (special issue): 46, 1995. By Bradley Beiswanger, professor of preventive and community dentistry; P. Doyle; Richard Jackson; Mark Mallatt, associate professor of preventive and community dentistry; Melissa Mau, OHRI associate director of clinical research; B. Bollmer; M. Crisanti; C. Guay; A. Lanzalaco; M. Lukacovic; S. Majeti; and S. McClanahan

The clinical effect of a stabilized stannous fluoride dentifrice on plaque formation, gingivitis and gingival bleeding: a six-month study, 6 (special issue): 54, 1995. By M. Perlich; L. Bacca; B. Bollmer; A. Lanzalaco; S. McClanahan; L. Sewak; Bradley Beiswanger; William Eichhold, OHRI assistant scientist; James Hull (DDS'77); Richard Jackson; and Melissa Mau

Journal of Clinical Orthodontics

Rigid implant anchorage to close a mandibular first molar extraction site, 28(12): 693, 1994. By Eugene Roberts, professor of orthodontics (Dentistry), professor of physiology and biophysics (Medicine), and adjunct professor of mechanical engineering (Engineering and Technology); Charles Nelson, volunteer associate professor of oral and maxillofacial surgery (Dentistry) and of plastic surgery (Medicine); and Charles Goodacre (MSD Prosthodontics and Dental Materials '74)

Journal of Craniofacial Surgery

Mandibular vascular malformations: treatment and long-term results, 5(5): 289, 1994. By A. Michael Sadove; Barry Eppley; Kurt Gossweiler (MD'90, DDS'94); and Ronald Hathaway, assistant professor of orthodontics

Journal of Dental Research

Stress analysis of a bulk-filled class V light-cured composite restoration, 73(8): 1470, 1994. By Thomas Katona and Mark Winkler, assistant professor of dental materials

Effect of aging on animal response to chronic fluoride exposure, 74(1): 358, 1995. By Ann Dunipace; E. Brizendine; Wu Zhang; Marie Wilson, OHRI research technician; Linda Miller, OHRI laboratory animal technologist; Barry Katz; Janice Warrick, assistant director of the OHRI bioresearch facility; and George Stookey

Specific and charge interactions mediate collagen recognition by oral lactobacilli, 74(2): 649, 1995. By J. McGrady; W. Butcher; D. Beighton; and Lech Switalski, associate professor of oral biology sciences

Journal of Dentistry for Children

Falling between the cracks: oral health survey of school children ages five to thirteen having limited access to dental services, 61(6): 356, 1994. By Salwa Rizk (MSD Preventive Dentistry '92) and Arden Christen

Effect of chewing gums on plaque pH after a sucrose challenge, 62(3): 180, 1995. By Kichuel Park; David Hernandez, former OHRI research associate; Bruce Schemehorn; Barry Katz; George Stookey; Paul Sanders; and Harriett Butchko

Journal of Endodontics

Interpretation of periapical lesions using RadioVisioGraphy, 20(10): 490, 1994. By Eric Yokota (MSD Endodontics '93); Dale Miles, professor of dental diagnostic sciences; Carl Newton, volunteer professor of endodontics; and Cecil Brown Jr., associate professor of endodontics

Interpretation of endodontic file lengths using RadioVisioGraphy, 20(11): 542, 1994. By Beverly Leddy (MSD Endodontics '93), Dale Miles, Carl Newton, and Cecil Brown Jr.

An alternative treatment for the severely resorped maxillary lateral incisor: a sequela of ectopic eruption, 21(2): 95, 1995. By Donald Arens, associate professor of endodontics

Journal of Practical Hygiene

The dynamics of pregnancy in the dental treatment setting, 4(2): 25, 1995. By Karen Yoder

Journal of Prosthodontics

An in vitro evaluation of adhesives used in extraoral maxillofacial prostheses, 4(1): 11, 1995. By Steven Haug, associate professor of prosthodontics; Glenn Richard, former associate professor of prosthodontics; Eugene Margiotti, assistant professor of oral and maxillofacial surgery; Mark Winkler; and Dorsey Moore

Laboratory Medicine

The biological role and clinical implications of IgA, 25(11): 724, 1994. By Richard Gregory

Life Sciences

The hypothermic and antinociceptive effects of intrathecal injection of CGRP (8-37) in mice, 55(21): 1665, 1994. By Mark Saxen, assistant professor of dental diagnostic sciences; Forrest Smith; Dale Dunlow; Daniel Dombrowski; and Sandra Welch

Oral Surgery Oral Medicine Oral Pathology

Focal cemento-osseous dysplasia: a clinicopathologic study of 221 cases, 78: 611, 1994. By Don-John Summerlin and Charles Tomich, professor of oral pathology

Oral Surgery Oral Medicine Oral Pathology Oral Radiology Endodontics (formerly Oral Surgery Oral Medicine Oral Pathology)

An unusual case of sympathetically maintained facial pain complicated by telangiectasia, 79: 455, 1995. By Mark Saxen and Robert Campbell

Orthodontic Dialogue

Orthodontics as a restorative option: implant anchorage to close posterior extraction sites, 7(1): 2, 1994. By Eugene Roberts

OSAP Report (Office Sterilization & Asepsis Procedures)

Keep on gloving, 7(2): 1, 1994. By Chris Miller

Pediatric Dentistry

*IgA antibodies to *Streptococcus mutans* in caries-resistant and -susceptible children*, 16(4): 272, 1994. By Paul Rose (MSD Pediatric Dentistry '93), Richard Gregory; Linda Gfell, senior research assistant in oral biology; and Christopher Hughes, former assistant professor of pediatric dentistry and of oral microbiology

The Quintessence

A smoking cessation program for the dental office, 13(10): 1994. By Arden Christen; James McDonald Jr.; Jennifer Klein, associate professor of dental hygiene (IU South Bend campus); Joan Christen; and Christianne Guba, associate professor of preventive and community dentistry

ABSTRACTS

Note: In addition to the abstracts below, 51 scientific abstracts associated with IUSD were presented in San Antonio at the annual meeting of the American Association for Dental Research and were published in the *Journal of Dental Research* (Volume 74 Special Issue, March 1995). A list of those abstracts appeared in a previous issue of the *Alumni Bulletin* (Volume 9, Number 3, 1995, pages 32-34).

American Journal of Medical Genetics

Microsomal xenobiotic epoxide hydrolase cDNA translatable sequence in A/J and C57BL/6J mice, 52: 368, 1994. By James Hartsfield Jr., K. Hinds-Frey, R. Haire, R. Litman, and G. Litman

FASEB Journal (Federation of American Societies for Experimental Biology)

*Salivary IgA antibody to *Streptococcus mutans* in HIV-1 seropositive individuals*, 9(4): A1051, 1995. By Richard Gregory and Ned Warner, postdoctoral fellow in oral biology

Journal of Dental Education

Clinical evaluation of an illuminated dental mirror, 59(2): 366, 1995. By Margot Van Dis, associate professor of dental diagnostic sciences

Journal of Dental Research

*Binding of *Veillonella atypica* PK1910 to SHA and human erythrocytes*, 74 (special issue): 407, 1995. By M. Chingbingyong, Sonya Wu-Ng (MSD Pediatric Dentistry '93), Richard Gregory, and Christopher Hughes

Medicine & Science in Sports & Exercise

Effect of exercise on milk immunoglobulin A levels, Supplement to 27(5): S177, 1995. By Richard Gregory, Janet Wallace, Linda Gfell, J. Marks, and B. King

CONFERENCE PROCEEDINGS

American Association of Orthodontists, Proceedings of the Orthodontic Educational Development Symposium, Orlando, Fla. (Eugene Roberts et al., editors), 1994

Teaching strategies: teaching options and effectiveness, page 72. By William Hohlt

Practitioners' learning goals, page 82. By H. William Gilmore, professor of operative dentistry

ASME International (American Society for Mechanical Engineering), Proceedings of the International Mechanical Engineering Congress and Exposition, Chicago, Ill., 1994

Interface stresses developed by a self-cured composite dental restoration, page 161. By Thomas Katona; Mark Winkler; and Jian Huang, Oral Facial Development research associate

Mechanical analysis of orthodontic springs, page 389. By Jie Chen; Ken Chen; Thomas Katona; James Baldwin, associate professor of orthodontics; and Gordon Arbuckle, associate professor of orthodontics

Biological Mechanisms of Tooth Eruption, Resorption and Replacement by Implants, Proceedings of the International Conference (Harvard School of Dental Medicine, Harvard Society for the Advancement of Orthodontics), Danvers, Mass., 1993 (published 1994)

A mechanical engineering analysis of orthodontics-associated external root resorption, page 537. By Thomas Katona

The use of dental implants in orthodontic therapy, page 631. By Eugene Roberts

Dental implants and orthodontic biomechanics, page 653. By Gordon Arbuckle

Rigid implants for orthodontic anchorage, page 661. By William Hohlt and Eugene Roberts

Program and Abstracts for the Annual Meeting of the **Indiana Branch of the American Society for Microbiology**, Clifty Falls State Park, Ind., 1995

Serum and salivary total IgA levels in HIV positive individuals, page 11. By Ned Warner and Richard Gregory

*Binding of *Streptococcus mutans* fimbriae to saliva*, page 21. By C. Ray, Linda Gfell, and Richard Gregory

An in vitro microbial model for studying secondary caries formation, page 22. By Margherita Fontana, Ann Dunipace, Richard Gregory, Timothy Noblitt, and George Stookey

Detection of cariogenic bacteria in secondary carious lesions using immunofluorescence techniques and confocal microscopy, page 22. By Carlos Gonzalez-Cabezas, Yiming Li, Timothy Noblitt, Richard Gregory, and George Stookey

International Society for Fluoride Research, Proceedings of the 20th Conference, Beijing, China, 1994

Nutritional influence on biological effects of long-term exposure to fluoride, page 32. By George Stookey, Yiming Li, C. Liang, S. Sun, R. Ji, J. Cao, Barry Katz, S. Cao, and S. Niu

Long-term fluoride exposure and SCE frequency in human blood lymphocytes, page 144. By Yiming Li, C. Liang, Barry Katz, and George Stookey

Proceedings of the **World Veterinary Dental Congress**, Philadelphia, Penn., 1994

Preventing dental calculus formation in exotic animals, page 95. By George Willis, associate professor of operative dentistry; N. Kapustin; Janice Warrick; Linda Miller; George Stookey; and D. Hopkins

BOOKS/CHAPTERS

Book: **Primary Preventive Dentistry** (Norman Harris and Arden Christen, editors), 4th edition, Appleton & Lange, Norwalk, Conn., 1995

Dr. Christen also wrote four chapters in this text, including *Periodontal Disease—Risk Assessment and Evaluation*, page 317 (Kichuel Park, co-author); *Understanding Human Motivation*, page 387 (Clifford Katz, co-author); *Primary Preventive Dentistry in a Hospital-Based Setting*, page 509 (Michael Montgomery, co-author); and *Smoking (Tobacco) Cessation*, page 597.

Book: **Painless Parker—A Dental Renegade's Fight to Make Advertising "Ethical,"** by Arden Christen and Peter Pronych, McCurdy Printing & Typesetting Limited, Halifax, Nova Scotia, Canada, 1995

Book section: Steven Haug, editor for Fixed and Removable Prosthodontics section of **Clark's Clinical Dentistry** (Jefferson Hardin, editor), revised edition, J.B. Lippincott Company, Philadelphia, 1994

Chapter: *Periodontal Care and Prevention*, by Michael Kowolik. In **Color Atlas and Text of Dental Care of the Elderly** (John Drummond et al., editors), page 71, Mosby-Wolfe, Times Mirror International Publishers Limited, London, 1995

Chapter: *Amalgam as a Restorative Material*, by Timothy Carlson, associate professor of operative dentistry; and Ralph Phillips, research professor of dental materials (deceased). In **Clark's Clinical Dentistry**, Chapter 23, volume 4, 1994

Chapter: *Participant Observation*, by Stephen Bogdewic and P.K. Jamison, visiting assistant professor in oral biology. In **Exploring Collaborative Research in Primary Care** (Benjamin Crabtree et al., editors), page 53, Sage Publications, Inc., Thousand Oaks, Calif., 1994

Chapter: *Zymographic Techniques for Detection and Characterization of Microbial Proteases*, by Marilyn Lantz and Pawel Ciborowski. In the Bacterial Pathogenesis section of **Methods in Enzymology**, volume 235 (John Abelson and Melvin Simon, editors), page 563, Academic Press, Inc., San Diego, 1994

GUEST EDITOR/EDITORIAL

Journal Indiana Dental Association, theme issue on dental outreach efforts in Indiana, 74(1), 1995. Edited by Karen Yoder.

Occlusal Adaptation of Natural Teeth and Implants to Mandibular "Growth" and Degeneration, guest editorial by Eugene Roberts. In **The Journal of Craniomandibular Practice** 12(4): 208, 1994

EXTERNAL NEWSLETTERS

Dental Asepsis Review, edited and written by Charles Palenik and Chris Miller. Six issues published under Volume 15, 1994, and six under Volume 16, 1995

Tobacco Cessation in Dentistry, edited by Arden Christen. Four issues published under Volume 1, 1994-95

COLUMNISTS

Chris Miller, infection control contributing editor to **RDH** (Registered Dental Hygienist), six columns for Volume 14, 1994; and six columns for Volume 15, 1995

Jennifer Klein, columnist for newsletter **Tobacco Cessation in Dentistry** (Jenni's Treatment Tips for Oral Healthcare Providers), four columns for Volume 1, 1994-95

David Vandersall, columnist for **Journal Indiana Dental Association**, three-year appointment representing the Indianapolis District Dental Society, 1995-98

COMMENTARIES

"Outreach Programs in Indiana," by H. William Gilmore. In **Journal Indiana Dental Association** 74(1): 7, 1995

Response to papers presented by Norman Mohl and William McGaghie, by Gordon Arbuckle. In **American Association of Orthodontists** Proceedings of the Orthodontic Educational Development Symposium, page 50, 1994

MONOGRAPHS

Indiana Oral Health Survey 1992-1993, Final Report July 1994, by Mark Mallatt, primary investigator; and Charles Smith and Bradley Beiswanger, co-investigators

Building Rural Health Initiatives—Indiana, edited by P.K. Jamison for the Bowen Research Center, a Division of the Indiana University Department of Family Medicine, Fall 1994

SELF-INSTRUCTION AUDIOCASSETTE

Academy of General Dentistry's **AudioDent**, supplement for continuing dental education (Volume 1, Number 12): *Glass Ionomer and Resin-Ionomer Hybrid Restorations*, by (moderator) Michael Cochran, professor of operative dentistry; and (panelists) Timothy Carlson and Bruce Matis, associate professor of operative dentistry

REPRINTED ABSTRACT

Triamcinolone acetonide versus chlorhexidine for treatment of recurrent stomatitis, by Dale Miles; Steven Bricker, professor of dental diagnostic sciences (deceased); Thomas Razmus, former IU faculty member; and Rosario Potter, professor emerita of oral facial genetics. In **The Year Book of Dentistry** (Lawrence Meskin, editor), page 264, Mosby, St. Louis, 1994. Reprinted from article appearing in **Oral Surgery Oral Medicine Oral Pathology**, 75: 397, 1993.

Promotions and Tenure

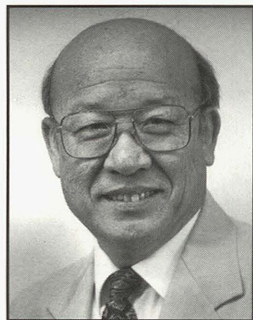
Gordon R. Arbuckle, promoted to associate professor of orthodontics; and tenured

Joseph F. Heidelman (part-time faculty member), promoted to associate professor of oral and maxillofacial surgery

Donald H. Newell, promoted to associate professor of periodontics; and tenured

Don-John Summerlin, promoted to associate professor of oral pathology; and tenured

Kichuel K. Park, professor of preventive and community dentistry, assistant director of preclinical research at the Oral Health Research Institute, and IUSD faculty member for 27 years, resigned from his position with IU to accept an appointment as dean of the School of Dentistry at Dankook University, Cheonan, Choongnam, South Korea. Dr. Park's many friends and colleagues at Indiana University congratulate him on this outstanding achievement, and wish him the best in his new leadership role in dentistry at Dankook University.



Kichuel K. Park

Honors

Donald E. Arens

Awarded life membership status in Omicron Kappa Upsilon dental honor society

Indiana University School of Dentistry Alumni Association's Distinguished Alumnus Award

W. Bailey Davis

Awarded life membership status in OKU

Linda E. Gfell

Named IUPUI's Employee of the Month (February)

Joseph J. Legan

Elected to Theta Theta Chapter, OKU

Sally I. Phillips

Elected to Theta Chapter, Sigma Phi Alpha dental hygiene honor society

Paul E. Reifeis

Elected to Theta Theta Chapter, OKU

Norris L. Richmond

Glenn W. Irwin, Jr., M.D. Experience Excellence Recognition Award, presented at IUPUI Chancellor's Honors Convocation

Brian J. Sanders

Elected to Theta Theta Chapter, OKU

Mark A. Saxen

IUSD Alumni Association's Distinguished Faculty Award for Research

Charles E. Smith

Indiana Dental Association's Charles W. Gish Community Dental Health Award

Don-John Summerlin

IUSD Alumni Association's Distinguished Faculty Award for Teaching

Jamie C. Swan

IUSD Staff Award for Research Excellence (1st place), supported by the John O. Butler Company

Karen M. Yoder

IUSD Alumni Association's Distinguished Service Award

Nancy A. Young

IUSD Alumni Association's Distinguished Dental Hygiene Alumna Award

Wu Zhang

IUSD Staff Award for Research Excellence (2nd place)

INDIANA UNIVERSITY DDS CLASS OF 1995's BANQUET AWARDS:

Steven E. Dixon

Best Clinical Instructor

Ray K. Maesaka

Special Recognition Award

Orthodontic Clinic in the Department of Oral Facial Development

Best Clinic

Charles E. Tomich

Best Lecturer

Diplomates

Carol G. McKown

American Board of Pediatric Dentistry

Mark A. Saxen

American Academy of Pain Management

Presidents

Donald E. Arens

International Federation of Endodontic Associations (international office)

Richard L. Gregory

Indiana Section, American Association for Dental Research

Hala Z. Henderson

American Society of Dentistry for Children (national office)

Roger L. Isaacs

Indiana University School of Dentistry Alumni Association

James L. McDonald Jr.

Theta Theta Chapter, OKU

Dale A. Miles

Diagnostic Systems Section, International Association for Dental Research

Charles E. Smith

Indiana Section, American College of Dentists

Charles E. Tomich

American Academy of Oral and Maxillofacial Pathology (national office)

Fellows

Gordon R. Arbuckle

American College of Dentists

David A. Bussard

American College of Dentists

Seema Ganatra

American Academy of Oral and Maxillofacial Pathology

Donald H. Newell

American College of Dentists

Chairs

Carl J. Andres

American Association of Anaplastologists (site chair)

American Academy of Maxillofacial Prosthetics (program chair)

James L. McDonald Jr.

Oral Biology Section, American Association of Dental Schools

W. Eugene Roberts

Council on Journalism and Information, Indiana Dental Association

Directors

E. Brady Hancock

American Board of Periodontology (1994-1999)

Dale A. Miles

International Association of Dentomaxillofacial Radiology (regional director)

David C. Vandersall

American Board of Periodontology (1994-2000)

Visiting Faculty/Scholars

Yoshiki Oshida

One-year position as visiting researcher, Paffenbarger Research Institute, National Institute of Standards and Technology, Gaithersburg, Md.

W. Eugene Roberts

Six-month sabbatical, Université de Lille II Faculté de Médecine, Lille, France

Visiting eminent scholar, Oklahoma University School of Dentistry

Consultants

Dale A. Miles

Pan American Health Organization of the World Health Organization (regional position)

W. Eugene Roberts

American Dental Association (scientific consultant)



Isabel Vahedi-Johnson shares a hug with dental mascot Bucky Bicuspid, who helped entertain youngsters during Isabel's four-year reign as coordinator of the annual dental health fair.

A Special Note of Recognition

For 1995 dental graduate Isabel Vahedi-Johnson, whose commitment to community outreach developed early. Only a few months into her first year of dental school she secured a post as coordinator of the Student Affairs Council's annual dental health fair. The fair includes free dental screenings for Hoosier children and is held each February to celebrate national Children's Dental Health Month. Isabel enjoyed managing the 1992 event so much that she signed up to do it again—and again and again. As the only IU student to have led the SAC's health fair activities during all four years of her dental education, Isabel contributed countless hours (not to mention a good deal of shoe leather) to drumming up interest in this event any way she could, such as by posting leaflets in grocery stores all over town. When she graduated last spring she received a number of awards, including one from the American Association of Public Health Dentistry and another from the American Society of Dentistry for Children. She also passed along a legacy of outstanding student leadership in one of dentistry's most important arenas: community service. After earning her degree Dr. Vahedi-Johnson accepted an appointment as a part-time instructor in IU's Department of Restorative Dentistry.

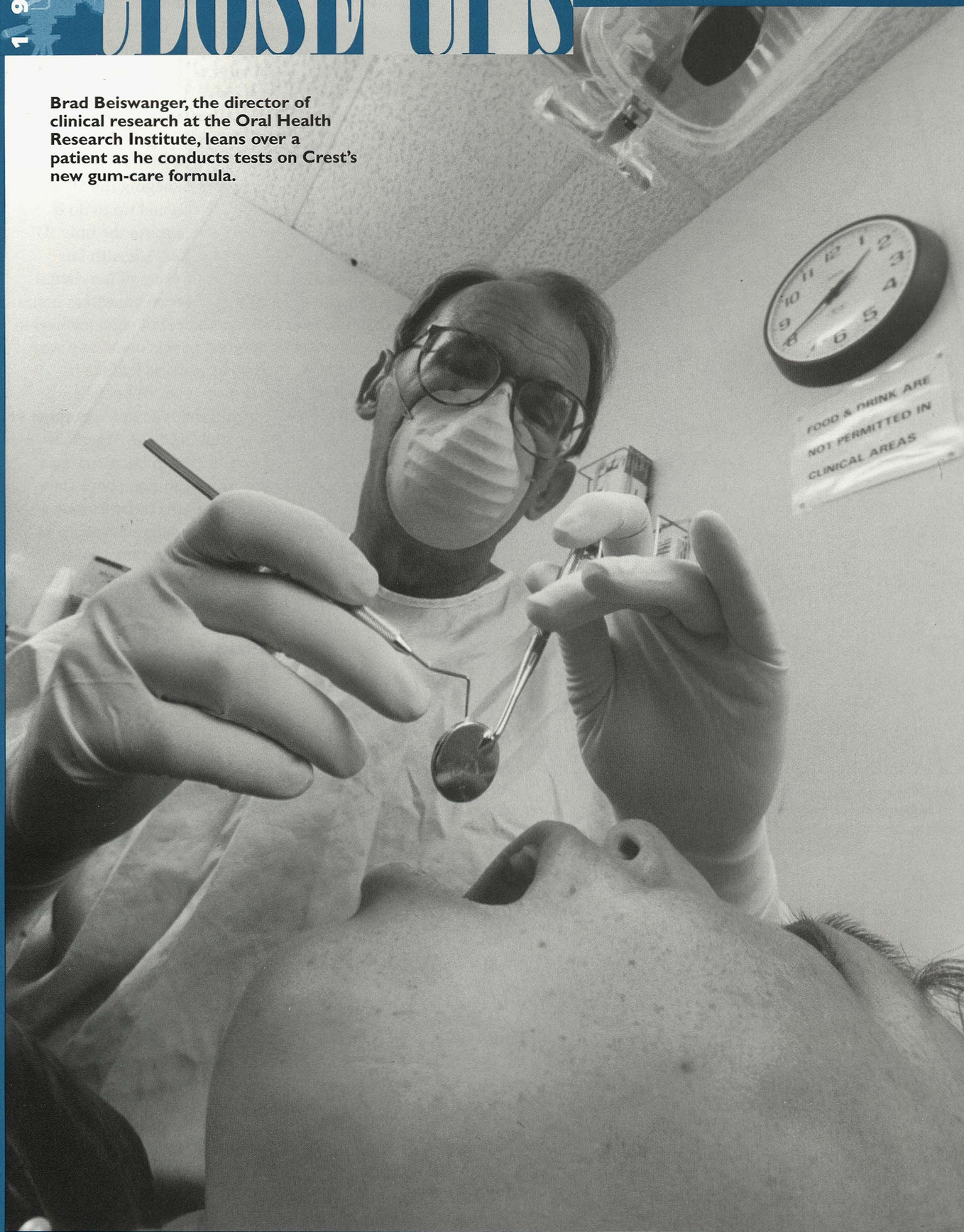
Congratulations

TO HIGH SCHOOL STUDENT KATIE HUTTON, whose science project earned her recognition in a number of Indiana science fairs last year. Katie is an 11th grade student at Winamac Community High School, Winamac, Ind. Her science project, titled "The Use of Ethyl Acetate to Clean Handpiece Lubricant from Teeth," was completed under the guidance of faculty in the IU School of Dentistry's dental materials laboratories.

Katie was runner-up in the overall category at the Purdue University regional competition; she took 3rd place in the physical science category at the state level; and she placed 1st in the medicine and health category at a Crane Naval Base fair. Katie is the daughter of Charles R. (DDS'78) and Donna L. (ASDH'74, BS'78) Hutton, Winamac, and the granddaughter of Charles E. (DDS'52) and Lucreda Hutton, Lebanon.

CLOSE UPS

Brad Beiswanger, the director of clinical research at the Oral Health Research Institute, leans over a patient as he conducts tests on Crest's new gum-care formula.



Giving Gingivitis the Brush-Off

Clinical tests at IU's Oral Health Research Institute find that new toothpaste helps reduce gingivitis

That toothpaste you used today may have been developed by Hoosier dental researchers.

And if it wasn't developed in Indiana, chances are that Hoosier researchers helped test the paste's effectiveness.

The original Crest toothpaste tests were done with Hoosier children in the 1950s. That first Crest formula—a stannous-fluoride paste—was developed by Indiana University researchers,* and the patent on the first fluoride toothpaste was held by the university from 1952 to 1968.

Cincinnati-based Procter & Gamble, which sells Crest, has repeatedly turned to researchers at Indiana University-Purdue University Indianapolis to research new Crest toothpastes, including the new gum-care formula it launched last month (*July 1995—ed.*).

There are 12 to 15 researchers on the IUPUI Crest team, and there hasn't been a lot of turnover on the team over the years, said George Stookey, director of the Oral Health Research Institute at the Indiana University School of Dentistry.

Stookey is a case in point. He has been working on the various Crest tests since 1957, when he was a graduate student at Indiana University Bloomington.

"It's been a long-term relationship with the crew there—decades long," said Matthew Doyle, Procter & Gamble section head and senior researcher for oral-care research and product development worldwide. "When you've been working together with the same group for so long, you go through life changes together."

Brad Beiswanger, OHRI director of clinical research, said the Indiana gum-care Crest tests were conducted on 600 to 900 people. It took a couple of years to plan the study, and then six months to conduct the tests.

About 100 researchers at P&G's Cincinnati base have been working on the gum-control formula for seven or eight years.

Results of the clinical trials, published in *The Journal of Clinical Dentistry* in the early '90s, show the gum-care formula is 15 percent to 30 percent more effective at fighting the bacteria that lead to gum disease.

What's new about the gum-care paste is also what's old. The stannous-fluoride paste

patented by IU researchers in the '50s is the same basis for the new paste.

The original IU-patented stannous-fluoride paste of the '50s was shelved in the '80s. In 1981, P&G switched Crest to a sodium-fluoride paste deemed more effective in fighting cavities.

It has taken since then for P&G researchers to find a way to make the stannous-fluoride paste more effective on teeth and gums.

The tin (the stannous part of the formula) combats bacteria from plaque that forms on the teeth and gums. Left untreated, these bacteria can lead to gingivitis and periodontitis.

Eventually, tooth loss can occur. The idea behind the new formula is to prevent gingivitis in the first place.

"It would be nice if I could tell you gum-care Crest eliminates gingivitis, but it doesn't. It reduces it 15 to 30 percent," Beiswanger said. "That's better than nothing at all, and it's the best we can do at this time."

How big a problem is gingivitis? Doyle says three of four Americans have some form of gingivitis during their lifetimes.

Toothpaste is a \$1.5 billion business, and P&G's Crest has about 30 percent of the market.

The latest Crest formula has received trademark and patent protection, Doyle said. So it's not likely toothpaste archrival Colgate, which has about 18 percent of the market, will be rolling out a gum-care paste soon.

On store shelves you'll find an original-formula Crest, tartar-control formula Crest (introduced 10 years ago), gum-care Crest, and a formula for people with sensitive teeth.

"Which one you should use depends on what type of problem you have," Beiswanger said. "I can't tell a patient to go out and get just one Crest toothpaste anymore."

One size doesn't fit all, but Doyle says, "We're getting close to that."

Tests under way now are aimed at measuring the gum-care formula's ability to control tartar, and its ability to help people with sensitivity to hot and cold substances.

This week Beiswanger is busy with further tests on the gum-care paste. "Just because the product is out there doesn't mean the end of its development. There's still much to be done," he said.

*Chemistry professors Harry Day and William Nebergall and preventive dentistry professor Joseph Muhler, who now holds the titles of Research Professor Emeritus of Preventive Dentistry and Professor Emeritus of Dental Auxiliary Education

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Article by Jeff Herman, *Star* Assistant Business Editor; photo by *Star* photographer Rob Goebel.



Going Strong Since '71

Members of the Indiana University Pediatric Dentistry Alumni Association gather on the IUPUI campus for their biennial reunion

With Dr. John Mink, of Lexington, Ky., wrapping up his two-year stint as their presiding officer, members of the IU Pediatric Dentistry Alumni Association returned to Indianapolis last summer to enjoy two full days of fun and scholarship. The 13th meeting for this group—which was first organized in 1971—was held June 22-24 at the IU dental school and the University Place Hotel and Conference Center.

A time-honored portion of the program is the McDonald Lecture, a continuing education course named in honor of Dr. Ralph McDonald, dean emeritus of the IU School of Dentistry and IU's former chair of pediatric dentistry. The McDonald Lecture made its debut at the 1975 meeting. Presenting this year's lecture was Dr. Kevin Donly, who offered an indepth discussion of current concepts in restorative pediatric dentistry. Dr. Donly is an associate professor of pediatric dentistry and associate director of the Center for Clinical Studies at the University of Iowa, Iowa City. The McDonald Lectures are supported by the Ralph E. McDonald-Pedodontic Fund of the IU Foundation.

Another highlight of the meeting was the presentation of the McDonald Research

Award, also named for Dean Emeritus McDonald. The 1995 honors went to Dr. Yoshihiko Hamada, a pediatric dentist in Kochi City, Japan. Dr. Hamada was a visiting research scholar at IUSD for one year beginning in October 1992. He returned to Indianapolis with his wife, Noriko, to accept the McDonald Research Award, which recognized the research Dr. Hamada undertook during his studies at IU. In his research he looked at the effects of two enamel modification procedures on subsequent tooth demineralization, and at enamel demineralization and remineralization following tooth surface modification.

Complementing the meeting's excellent educational program were myriad recreational pursuits such as a golf tournament, a picnic, and a "grand finale" banquet.

The group's next get-together is scheduled for June 26-27, 1997.

A President Times Two

The IU Pediatric Dentistry Alumni Association counts among its membership many dentists who have served in leadership positions in the dental profession, including Hala Henderson (MSD'59, DDS'70), for whom the past year has been unusually productive at the national level. Last spring she completed a stint as president of the American Board of Pediatric Dentistry's College of Diplomates, and in the fall of 1995 she wrapped up a year as president of the American Society of Dentistry for Children. Dr. Henderson is the IU dental school's associate dean for student affairs and acting associate dean for academic affairs.

Officers and Board of Directors 1995-1997

Elected during the June 24, 1995, business meeting of the IU Pediatric Dentistry Alumni Association

President

Phillip Miller
Augusta, Ga.

Vice President—Program Chair

Charles Poland III
Indianapolis

Secretary—Treasurer

Carol McKown
Indianapolis

Board

Brian Lee (1995-1997)
Foster City, Calif.

Carol Jean Braun (1995-1999)
Owensboro, Ky.

Gerald Wright (1995-2001)
London, Ontario



The Reunion Group

- 1) Laura Graham (DDS'86; Certificate '88)
- 2) B. Charles Kerkhove (DDS'62; MSD'65)
- 3) James Weddell (DDS'77; MSD'80)
- 4) George Krull (DDS'75; Cert. '77)
- 5) Arthur Klein (MSD'58)
- 6) David Avery (DDS'66; MSD'71)
- 7) Kevin Donly, guest speaker
- 8) Ralph McDonald (DDS'44; MS'51)
- 9) Charles Poland III (DDS'68; Cert. '72)
- 10) Keith Ray (Cert. '81)
- 11) Dennis Duffield (MSD'74)
- 12) Phillip Miller (Cert. '75)
- 13) Gary Toppi, IU pediatric dentistry resident
- 14) Tom Ison, fellow, United Cerebral Palsy Research and Educational Foundation, Inc.
- 15) Lorraine Henderson (DDS'79, Cert. '81)
- 16) Mark Winkler, IU assistant professor of dental materials
- 17) Robert Spedding (DDS'60; MSD'63)
- 18) Gerald Wright (MSD'70)
- 19) Brian Sanders, IU assistant professor of pediatric dentistry
- 20) Yoshi Hamada, the 1995 recipient of the McDonald Research Award
- 21) Jeffrey Dean (DDS'83; MSD'85)
- 22) Andrew Guthrie, IU pediatric dentistry resident
- 23) Gary Hinz (DDS'76), IU assistant professor of pediatric dentistry
- 24) T.J. Guthrie (MSD'60)
- 25) Jenny Ison (Cert. '89)
- 26) Carol McKown (DDS'84; Cert. '86)
- 27) Thomas Morse (DDS'77; Cert. '79)
- 28) Rebecca Donnelson (DDS'77; Cert. '79)
- 29) Ronald Mack (Cert. '75)
- 30) James Jinks (DDS'62; Cert. '64)
- 31) Stanley Herman (DDS'59; MSD'61)
- 32) Kelli Lucia (Cert. '95)
- 33) Leslie Tanimura (MSD'93)
- 34) Holly Wentz (DDS'92; IU combined degree candidate for pediatric dentistry/orthodontics)
- 35) Brian Lee (MSD'70)
- 36) Matthew Pate (Cert. '95)
- 37) William Keaty (Cert. '74)
- 38) John Mink (DDS'56; MSD'61)
- 39) Eugene Eggers (DDS'63; MSD'68)
- 40) J. Barry Burgess (Cert. '81)
- 41) Hala Henderson (MSD'59; DDS'70)
- 42) Carol Jean Braun (DDS'84; Cert. '86)
- 43) Phillip Pate (DDS'68; Cert. '70)
- 44) Dennis Zimmerman (DDS'73; Cert. '75)
- 45) Paul Starkey (DDS'43), IU professor emeritus of pediatric dentistry
- 46) Philip Sokoloff (MSD'75)
- 47) Elizabeth Hatcher, executive secretary



There's No Page Like Home

The IU School of Dentistry announces its online home page.
To return for a visit to your alma mater, just follow the cyberspace road

FROM HERE...

<http://www.iusd.iupui.edu> ...TO THERE

A pair of ruby-red slippers might transport you back to the dental school with greater panache, but the Internet is the second-best vehicle for graduates who would like to return to the school without boarding a plane or backing their car out of the garage.

Going places while staying put

The Indiana University School of Dentistry has designed a computer home page for the convenience of alumni and others who are traveling electronically these days. Online computer users who land on IUSD's home page will discover a comprehensive overview of life at 1121 West Michigan Street—complete with dental school pictorials and electronic links that provide a pathway to additional information about Indiana University at large and the city of Indianapolis.

Construction of the school's home page went on throughout fall semester 1995 under the direction of Thomas Boehm, IUSD network manager. But a "home" on the Internet, if well

constructed, is never entirely finished—we'll be continually remodeling and adding on in an effort to keep information about the IU dental school both useful and timely.

You'll find a lot of people, places, and things at the IUSD address. For example, with a click or two of your mouse you'll gain access to the dental school's:

- Monthly calendar of events
- Library collection
- Upcoming continuing education courses
- The dental school's layout, floor by floor
- Patient and student admissions information

As the home page evolves, we'll keep you informed. We invite you to continue sending us your own e-mail addresses—a few more that recently have arrived from the alumni are included here.

If you have questions or comments pertaining to the dental school's online home page, write to Thomas Boehm at the school's address or send him an e-mail: tboehm@iusd.iupui.edu.

Alums on the 'Net

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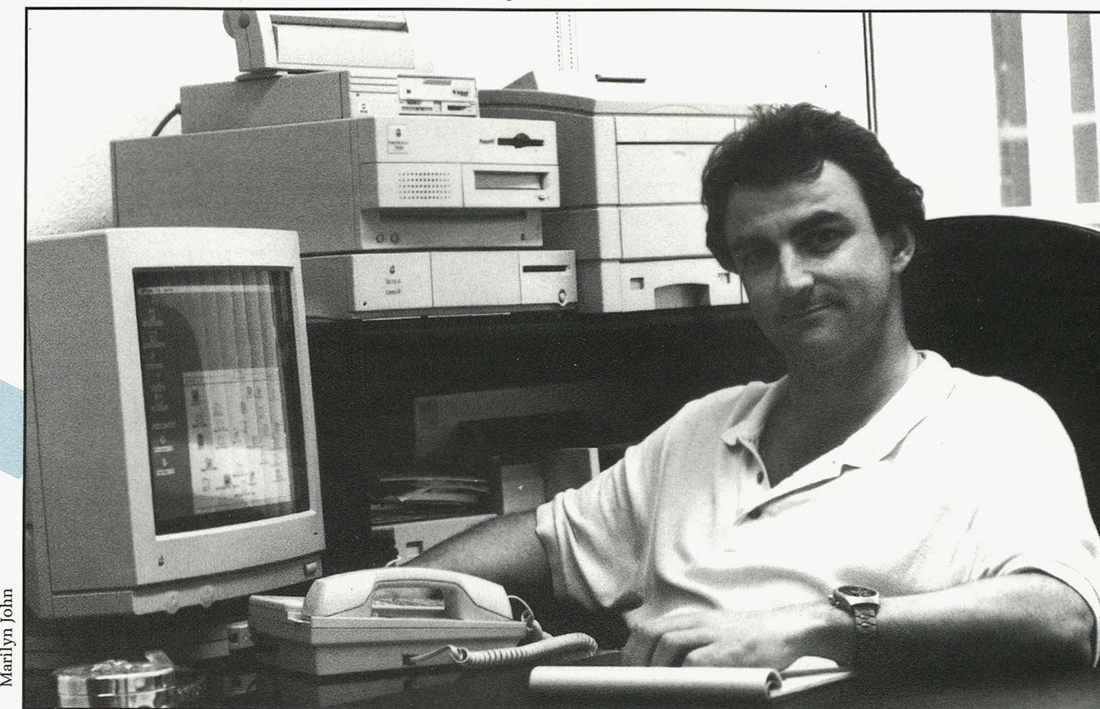
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Whenever room provides, e-mail addresses will be printed in the class notes section of the *Alumni Bulletin*. Send your e-mail address to: bulletin@iusd.iupui.edu.

FROM HERE (INDIANAPOLIS) TO THERE (DUSSELDORF, GERMANY) IN A FEW CYBERSPACE SECONDS. The dental school expects the Internet to play an increasingly important role in its communication efforts with alumni. Dr. Hans-Dieter John (MSD/periodontics '93), Dusseldorf (below), doesn't let the thousands of miles separating his home and Indy keep him apart from his alma mater. Folks such as Dr. E. Brady Hancock (opposite page), chair of periodontics and allied dental programs (who headed Hans-Dieter's graduate committee), are just a few keystrokes away.



Marilyn John

Research Day's keynote speaker is **Marjorie Jeffcoat, DMD**, the James Rosen Endowed Chair of Dental Research and Chair of the Department of Periodontics at the University of Alabama in Birmingham.

Dr. Jeffcoat is the 1995-96 president of the American Association for Dental Research. She holds a bachelor of science degree from the Massachusetts Institute of Technology, and a dental degree and certificate in periodontology from the Harvard School of Dental Medicine. She received Harvard's distinguished alumna award in 1990.

Dr. Jeffcoat's major research interests lie in three areas of bone resorption: diagnostic techniques for prediction of the rate of resorption, drug therapy which may influence the rate of bone resorption, and evaluation of methods of therapy for periodontal disease.

She serves on four editorial boards, including the *Journal of Periodontology's* advisory board, and has made numerous contributions to the scientific literature.



Indiana University School of Dentistry welcomes the dental alumni to the 4th Annual Research Day

Monday, April 8, 1996 • 12:30 pm to 4:30 pm

**University Place Conference Center
900 West Michigan Street
IUPUI Campus**

The Indiana Section of the American Association for Dental Research and the IUSD Research Committee invite IU graduates to join hundreds of dental school employees and students in a special conference held in recognition of the school's research efforts.

In addition to featured speaker Dr. Marjorie Jeffcoat, the program includes displays by manufacturers as well as research poster and table clinic presentations by IUSD faculty, students, and staff. There is no fee for alumni participation (except for parking).

Dental professionals earn 3 Continuing Education credits.

R E G I S T R A T I O N

To register for the Research Day program, call the Oral Health Research Institute at (317) 274-8822 or return the following information by mail:

Name _____

Address _____

Telephone Number _____

Number of Persons Attending _____

Mail to: Dr. Yiming Li, president of the AADR Indiana Section, Indiana University School of Dentistry, Room DS406, 1121 West Michigan Street, Indianapolis, IN 46202-5186. Registration can also be sent by fax, (317) 274-2419; or by e-mail, yli@iusd.iupui.edu.

Advances in Diagnostic Tests for Periodontal Diseases

Modern diagnosis of periodontitis is predicated on our current understanding of the pathogenesis of the disease. This presentation discusses a spectrum of tests for periodontal disease and the rationale for their use. It is possible for the clinician to adopt a common strategy for evaluating the clinical usefulness of such new tests for periodontitis. A series of specific questions will be presented that each clinician should ask prior to adopting new technology in the dental office.

Periodontitis is initiated by an infection with a pathogenic plaque in a susceptible patient. As a result of this infection changes in the metabolism of the periodontal tissue occur that ultimately result in gingival inflammation and attachment and bone loss.

Putative periodontopathic bacteria may be detected using bacterial culture, immunoassays, or DNA probes. Prostaglandins, cytokines, and enzymes including aspartate aminotransferase, neutral proteases, and elastase are examples of substances that may comprise the basis of tests for periodontal disease activity. Extensions of conventional methodology, such as electronic probes and digital radiography, are sensitive and specific indicators of progressive attachment and bone loss, respectively.

Every conceivable test may not offer the same clinical utility to the dentist. First, the dentist must determine if the test tells him or her something of importance about the patient. Ideally, the test will provide new information not available using conventional diagnostic techniques, such as determining if periodontitis is actively progressing. Alternatively, a useful new test may provide routine information more quickly or easily. The usefulness of a test may be further assessed by determining test resolution, repeatability, and diagnostic accuracy. Practical consideration such as test reliability, maintainability, availability, and cost effectiveness will be discussed.

Examples of the use of new tests, such as digital subtraction radiography in clinical trials concerning periodontitis and dental implants, will also be presented.

IU Launches Search for New Dean of Dentistry

Search and Screen Committee welcomes input from the dental alumni

Last fall Dean H. William Gilmore informed the IUSD alumni of his upcoming plans to retire from the School of Dentistry faculty. Since that announcement, a Search and Screen Committee has been assembled by IUPUI Chancellor Gerald L. Bepko to begin the process of recruiting highly qualified candidates for the deanship. Chancellor Bepko has asked the committee for a list of candidates to be submitted by May 1, 1996.

Members of the Search and Screen Committee are eager to hear your opinions, suggestions, and recommendations in regard to the selection of a new dean. Persons who are interested in applying for the position should submit their applications to committee chair Dr. Angela McBride, who is dean of the IU School of Nursing (address below).

Search and Screen Committee for Dean of the IU Dental School

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Candidates for the deanship will be considered as soon as applications or nominations are received. Those on hand prior to March 15, 1996, will receive priority consideration. The position is expected to be filled by July 1, 1996. Send applications to Dr. Angela McBride's address.

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