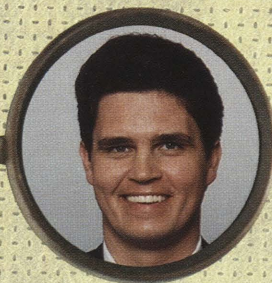
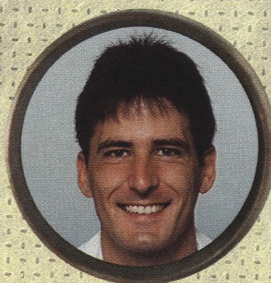


INDIANA UNIVERSITY SCHOOL OF DENTISTRY

Annual Report



*Alumni Bulletin
Special Edition
Vol. 7, No. 1
Fall 1992*



Message from the Dean

The 1991-1992 Annual Report summarizes events of a successful academic year at the Indiana University School of Dentistry.

At a time when U.S. dental schools are seeking partnership identification with their parent universities, the leaders of this school have worked together to institute fundamental changes that will enable students of dentistry and dental auxiliary education to evolve as young professionals throughout their training programs and far into the future.

New problems in oral health care and current economic trends in the country are opening new pathways in patient services and research. The administration has prepared to meet the variety of challenges facing dentistry today by creating opportunities for faculty renewal and development and by launching an exhaustive review of the existing curriculum in order to completely restructure the program. This annual report presents a record of achievement that is the result of the school's proactive rather than reactive approach to changes in dentistry and dental education.

IUSD's primary mission is to prepare dental professionals to serve the Indiana population. The new Comprehensive Care Program, implemented last January and described in detail in the summer 1992 issue of this publication, has broadened and enriched the clinical experiences available to each student of dentistry. The system has been designed to introduce students to a greater number and a greater variety of clinical problems, and signs of the program's success are already apparent. Exceptional performances by our students on the 1992 licensing board examinations, along with other assessment measures, indicate that IU's dental students are among the best prepared in the nation.

It is predicted, however, that future graduates will need to receive clinical and didactic training that is even more diverse in order to be capable of offering their patients a full range of services. Such predictions are guiding us toward innovative teaching methods aimed at expanding and elevating clinical instruction to keep pace with the demands that will be placed upon our students in their future practices.

Another tremendous area of growth during the past year was in faculty research. Our sponsored studies topped \$5.1 million, which represents a 75% boost in research funding over the preceding school year. Such noteworthy progress has once again placed the IUSD faculty firmly among the world leaders in dental research.

An increasing number of predoctoral students are joining in the research effort with the guidance of faculty mentors. Student participation brings a fresh vision to research investigations; the student/mentor research process is likely to become a requirement for accreditation. The research program fosters a learning environment that is conducive to quality instruction. A strong bond between the research and teaching programs is indispensable to the continued growth of this outstanding institution.

We are committed to continually reevaluating and fortifying our mission of purpose so that we may be assured of upholding the values embodied in the diplomas that are cherished by our graduates.

Your comments regarding this Annual Report are welcome.

H. William Gilmore

Dean H. William Gilmore (standing) in the main clinic, where a portion of the school's innovative cluster system is located, with Jody E. Walker (seated), president of the Non-Academic Staff Council; Kurt F. Martin, president of the Student Affairs Council; and Cynthia L. Spyker, president of the second-year dental hygiene class and the Student American Dental Hygienists' Association.

INDIANA UNIVERSITY ANNUAL REPORT SCHOOL OF DENTISTRY

SCHOOL OF DENTISTRY ANNUAL REPORT

Research

As the accompanying charts and graphs attest, external research funding soared to an all-time high of more than \$5 million during the 1991-92 fiscal year, representing an increase of more than 75 percent over last year's figure of \$2,910,381.

Specific projects, listed in charts A, B, and C, offer evidence of the growing diversity of IUSD's research program, as well as the growing number of individual faculty members contributing to the effort. The first year of IU's five-year program project on the pharmacologic effects of fluoride, funded by the National Institute of Dental Research (NIDR), is featured in a report on page 26, and the dental school's venture into mucosal immunology research is highlighted on page 32.

The IUSD Research Committee, under direction of Dr. George K. Stookey, approved 33 internal research proposals last year. **Intramural (dental school) funding was \$603,747, bringing total support for research and training to \$5,767,843.**

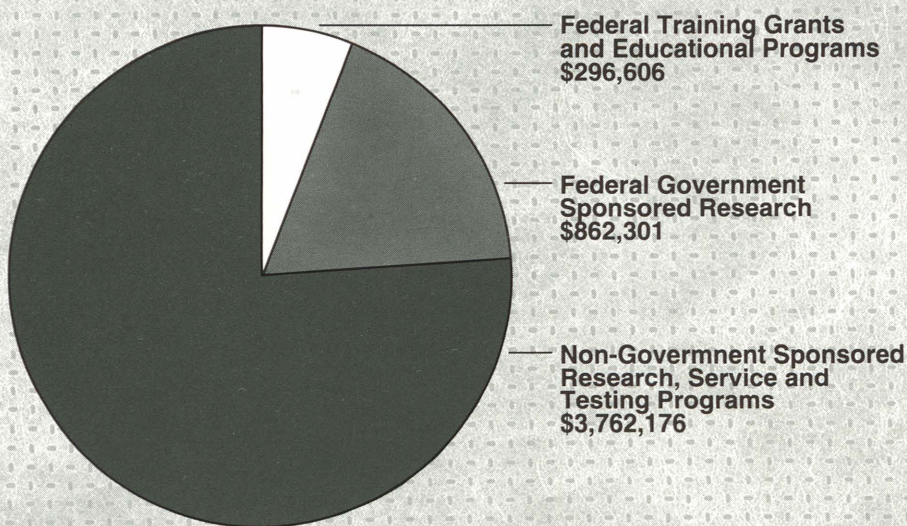
During the fiscal year the faculty submitted a total of 82 grant proposals to external agencies requesting total funds of \$14.9 million.

Now approaching its half-way mark, the school's ambitious Five-Year Research Plan made excellent progress in 1991-92, according to Dr. Stookey in his year-end summary to the IUSD Faculty Council. The following goals were accomplished:

- 1) Completion of the Biomechanics Research Laboratory, a component of IUPUI's new Biomechanics and Biomaterials Research Center. The laboratory, which is located on the second floor of the dental school, was officially opened in November with an evening ribbon-cutting ceremony led by IUPUI Chancellor Gerald L. Bepko and attended by some 100 guests, including many members of the orthodontic alumni whose gifts helped make possible the renovations needed to house the facility.
- 2) Completion of the new Cell Culture Laboratory facility, which is discussed in further detail on page 28.

2

EXTERNAL RESEARCH FUNDING



Total External Awards	\$4,921,083
University (Non-IUSD) Funds for Research	243,013
Total Funds for Research	\$5,164,096

(Last Year's Total = \$2,910,381)

- 3) Initiation of construction of an Oral and Maxillofacial Electronic Imaging Core Facility, which will be located on the second floor of the dental school and supervised by the Department of Dental Diagnostic Sciences. The school also acquired some of the instruments for the facility, including a portable radiovisiography unit for intraoral digital imaging.
- 4) Development of renovation plans for two molecular biology research laboratories, which also will be housed on the dental school's second floor (one in an area formerly used by the Department of Oral Facial Genetics and the other in a former bench laboratory across from the undergraduate pediatric dentistry clinic).
- 5) Acquisition of additional instrumentation, including a scanning acoustic microscope that is housed in and shared with the School of Medicine.
- 6) Increased support of undergraduate student research activities, with a total of 21 predoctoral students now involved in projects funded by the National Institutes of Health (NIH), the dental school, or individual dental school departments.

EXTERNAL RESEARCH FUNDING (By Department/Division)

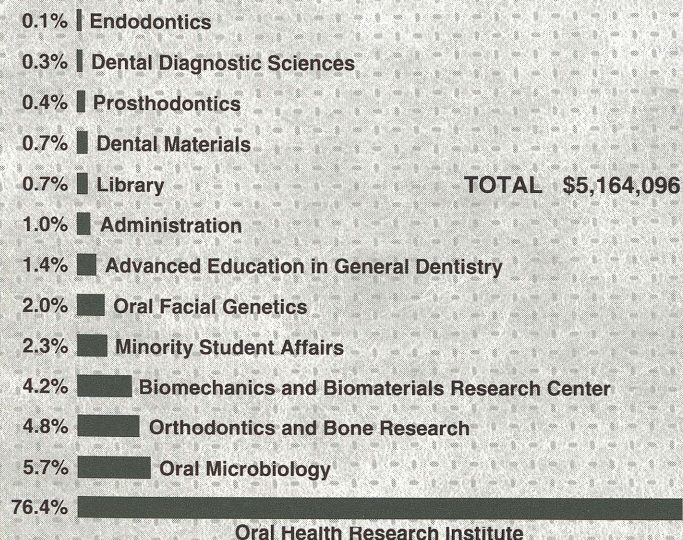


CHART A

FEDERAL TRAINING GRANTS AND EDUCATIONAL PROGRAMS

Principal Investigators	Title	Budget 1991-92
David Bixler	Oral Facial Genetics Training Grant	\$ 78,366
Christianne Guba	Advanced Educational Program in General Dentistry	74,724
LaForrest Garner	Graduate and Professional Study Fellowships Program	64,000
LaForrest Garner	Minority High School Student Research Apprentice Program	25,000
LaForrest Garner	Patricia Roberts Harris Fellowship Continuation	32,000
George Stookey	Short-Term Research Training for Students in Professional Schools	16,686
Lawrence Goldblatt	Indiana Geriatric Education Center	5,830

CHART B

FEDERAL GOVERNMENT SPONSORED RESEARCH

Principal Investigators	Title	Budget 1991-92
W. Eugene Roberts	Cell Kinetic and Histomorphometric Analysis of Microgravitational Osteopenia	\$ 28,338
Jack Schaaf	Ryan White HIV/AIDS Dental Reimbursement Program	10,489
George Stookey Ann Dunipace Richard Jackson Barry Katz	Pharmacologic Effects of Fluoride	545,789
Richard Gregory	Functional Role of IgA Antibodies to <i>Streptococcus mutans</i>	45,419
W. Eugene Roberts Lawrence Garetto	Cell Kinetic and Histomorphometric Analysis of Microgravitational Osteopenia	75,322
W. Eugene Roberts Lawrence Garetto	Cell Kinetic and Histomorphometric Analysis of Microgravitational Osteopenia (Flight Proposal)	134,322
David Bixler	Study to Identify a Major Gene Responsible for Clefting	22,622

Non-Government Sponsored Research, Service and Testing Programs

Principal Investigators	Title	Budget 1991-92	Principal Investigators	Title	Budget 1991-92
Richard Gregory	Effects of Smokeless Tobacco on Secretory Immune Factors in Saliva	\$ 27,462	H. William Gilmore Lawrence Goldblatt James McDonald	RIF Block Grant: Graduate Student Fellowships	\$ 24,000
George Stookey	Fluoride Uptake in Enamel Incipient Carious Lesions Following Topical Fluoride Treatments	13,800	Bradley Beiswanger	Clinical Methodology Validation Study and Evaluation of an Experimental Dentifrice	594,647
Richard Gregory	Regulation of Secretion of Immune Factors by Epithelial Cells	72,021	Bradley Beiswanger	Effect of Dietary Factors on Dental Caries Incidence	103,253
Richard Gregory	Effects of Smokeless Tobacco Use on Secretory Immune Factors in Saliva	128,883	Bradley Beiswanger	Administration of Timed Dental Prophylaxes	44,094
Bradley Beiswanger	Effect of Dietary Factors on Dental Caries Incidence	99,252	Charles Goodacre David Brown Carlos Munoz-Viveros	Endosseous Dental Implants for the Support of Removable Partial Overdentures for Patients with Extensive Posterior Bone Resorption	24,504
Bradley Beiswanger	Pilot Study of the Plaque Effects of Two Experimental Dentifrices	45,509	Sara Hook-Shelton	OCLC Patron Access: Information to the People through <i>FirstSearch</i>	13,330
Bradley Beiswanger	Effect on Soft Tissues and Oral Microbiology of Supervised Brushing with Various Concentrations of an Experimental Drug	37,921	Sara Hook-Shelton	Project Einstein	7,800
George Stookey	Validation of an In Situ Model to Study Fluoride Uptake and Mineral Change of Incipient Enamel Lesions	38,600	George Stookey Ann Dunipace	Effect of Chewing Gum on Mineral Changes in Incipient Enamel Lesions	9,000
Bradley Beiswanger	Effect of Dietary Factors on Dental Caries Incidence	638,714	Lawrence Garetto Ronald Miller	Immunohistochemical Localization of Estrogen Receptors in Osteoblast Precursor Cells	1,900
Bradley Beiswanger	Clinical Evaluation of the Cleaning Ability of a Ripple-Bristled Toothbrush	35,319	George Stookey Ann Dunipace	Recruitment and Screening of Additional Denture Chip Panelists	50,000
Bradley Beiswanger	A Gingivitis Examiner Qualification Study	72,370	George Stookey Ann Dunipace	Effect of Two Test Fluoridated Dentifrices on Enamel Fluoride Uptake and Mineral Content	55,000
Charles Goodacre Carlos Munoz-Viveros David Brown Rose Marie Jones	Evaluation of Procera™ Crowns with TiCeram™ Facings	10,050	Bradley Beiswanger	Effect of a Fluoridated Dentifrice Containing a New Abrasive on Dental Plaque Accumulation	54,760
Richard Jackson Bradley Beiswanger	Clinical Investigation of the Efficacy of a Dentifrice Containing a Potassium Oxalate System	37,969	Bradley Beiswanger	Screening and Selection of Patients for Future Clinical Trials	87,160
Carl Newton Alastair MacDonald	In Vitro Evaluation of an Experimental Material Used as a Root-End Filling	2,421	George Stookey Ann Dunipace	Enamel Fluoride Uptake and Mineral Change Following Use of Four Fluoridated Dentifrices	57,500
Bradley Beiswanger	Dental Plaque Examiner Qualification Exercise	11,991	Bradley Beiswanger	Comparison of Short- and Long-Term Safety of Two Soft-Bristle Toothbrushes	308,548
Bradley Beiswanger	Clinical Evaluation of the Cleaning Ability of Ripple-Bristled Toothbrush	17,660	Yoshiki Oshida	Chemical Migration of Copper Deposits Under Applied Voltage	24,995
Bradley Beiswanger	Screening and Selection of Suitable Subjects for Future Clinical Trials	46,236	David Bixler	Lip Prints as a Microform of Cleft Lip/ Palate	3,085
Chris Miller	Preliminary Analysis of Biofilms in Tubing from Endoscope Washers	1,561	numerous investigators	CONTRACT TESTING	960,861

Student Admissions/Graduation

The graduating DDS Class of 1992 was composed of 81 individuals, including two advanced standing students (i.e., those with foreign dental degrees enrolled in a three-year program). Of the group, 71 are residents, 51 are men, and four are minorities.

The number of applicants for dental school continues to increase annually, both at IUSD and nationally. The IUSD Admissions Committee reviewed 469 candidates for admittance in the 1991-92 academic year—an 18 percent increase over the number of candidates in the 1990-91 applicant pool. The committee offered 76 residents and 66 non-residents a position in the class of 1995 (see outline below). The students accepted into the first-year class are from 34 Indiana counties; the states of Hawaii, Illinois, Michigan, New Jersey, Ohio, Pennsylvania, and Utah; and Canada.

One student with a dental degree from Poland was accepted into the advanced standing program. Another student accepted into a special three-year program is a graduate of the IU School of Medicine.

Dental Class of 1995 Profile

Applicants	469	Students	82
Residents	114	Residents	70
Non-residents	355	Non-residents	12
Men	310	Men	53
Women	159	Women	29
Minorities	56	Minorities	3
Matriculated	82		

Twenty-four dental assisting and 32 dental hygiene students (IUPUI campus) graduated in 1992. Classes for the 1992-93 school year include 26 dental assisting students and 48 dental hygiene students. Incoming dental hygiene students were chosen from an applicant pool of 162; they met their prerequisite college requirements on five of Indiana University's eight campuses and at seven other universities.

Minority Student Services

Ten minority students accepted positions in IUSD's incoming classes for 1992-93, including four first-year dental students, one postdoctoral student, one dental hygiene student, one dental hygiene public health student, and three dental assisting students. Currently enrolled minorities include one second-year, two third-year, and four fourth-year dental students, and four second-year dental hygiene students.

During the 1991-92 fiscal year four minority students were awarded Patricia Roberts Harris scholarships in the amount of \$16,000 each from the NIH for a total of \$64,000 going toward the studies of IUSD dental students. Recipients were second-year students Kathleen J. Beache and Tonya R. Stewart, and third-year students Laura G. Fletes and Margaret A. March.

Clinical Program

A significant boost in clinic appointments and clinic income can be attributed in part to the transformation of the dental school's predoctoral clinical program, which occurred with installation of the Comprehensive Care Program in January 1992. Representing one of the most fundamental operational changes ever initiated at the school, Comprehensive Care places dental students at stationary locations on the third

floor where they treat the majority of their patients under the ongoing guidance of "cluster" teachers and coordinators. Described in detail in the summer issue of the *Alumni Bulletin*, Comprehensive Care has enjoyed an enormously successful



Patricia Roberts Harris scholarship recipient Kathleen "Judy" Beache

debut within the IU dental school and shows every sign of maturing into a complex system offering diverse challenges to clinicians-in-training.

The school currently has 13,917 active patients from 63 of Indiana's 92 counties as well as from locations out of state. Patients presented for 83,242 appointments during the past fiscal year, indicating an increase of 14 percent in visits compared to one year ago. Clinic income for 1991-92 was \$2,276,426, representing a 20 percent increase over 1990-91.

The school continued to recognize and nurture student progress in the clinics by funding the Clinical Achievement Awards, a program started in January 1989. Nearly \$3,000 was distributed by way of 21 clinical achievement awards presented to dental and dental hygiene students throughout the year and on Honors Day.

Below is the Class of 1992's clinical production compared to departmental requirements:

Department	Class of 92's Average	Requirement
Endodontics		
Molars	2.4	2
Non-molars	5.8	4
Operative Dentistry		
Amalgam/Resin	74	67
Direct Gold/Casting	18.5	18
Oral and Maxillofacial Surgery (Credits earned for various procedures)	171.9	65
Orthodontics		
minor orthodontic case	1	1
Periodontics		
Treatment plan	5.5	4
Prophylaxis	17	6
Root planing	18.5	16
Reevaluation	5.1	4
Maintenance	9	6
Surgery	5	4
(Credits)	672	575

Prosthodontics		
Fixed units	25.2	24
Removable partial dentures	3.1	3
Complete dentures	13.3	13
Denture relines	2.3	2
Partial denture relines	1.5	1

(Rather than requiring specific procedures, Dental Diagnostic Sciences has students schedule their own patients by assignment, and Pediatric Dentistry assigns students for 24 clinic sessions.)

Postdoctoral Programs

The number of inquiries and the number of completed applications were the highest in the history of IUSD's graduate program last year. Application packets were sent in response to 1,516 inquiries from prospective applicants for the 1992-93 academic year, a 14 percent increase over the previous year. Of these, 351 candidates submitted applications (about 26 percent more than the year before).

Forty-one students were accepted for the 1992-93 school year, including 13 international students.

Enrollment for 1991-92 totaled 126 students, of whom 92 were full-time on campus, 11 part-time on campus, and 23 off campus. Students represented 59 universities and 17 countries in addition to the United States. Twenty-five percent of the postdoctoral students were from outside the U.S., including Australia, Brazil, Canada, Colombia, Costa Rica, Egypt, England, Germany, India, Ireland, Japan, Mexico, Pakistan, the Philippines, Scotland, Syria, and Taiwan.

Eleven visiting scholars/researchers from other nations spent varying amounts of time studying with the IUSD faculty last year.

The IU Research Incentive Fund (RIF) block graduate fellowship grant was expanded, and will support three PhD students during the 1992-93 academic year.

Graduate core course development continued with the emergence of an advanced course in the physiology and pathology of bone, presented by the School of Dentistry's departments of orthodontics and oral pathology and the School of Medicine's departments of medicine and orthopedics. This course is in addition to the core courses in advanced head and neck anatomy, biostatistics, scientific writing, and implantology.

Faculty Affairs

The IUSD Faculty Affairs Committee conducted five major projects during the reporting period:

- 1) Development of *IUSD Guidelines for the Bloodborne Pathogen-Infected Dental Health Care Worker*, subsequently adopted by the IUSD Faculty Council.
- 2) Development of *Guidelines for the Promotion of Part-time Adjunct or Clinical Faculty Members*, IU School of Dentistry, subsequently adopted by the IUSD Faculty Council and approved with minor modifications by the IUPUI Dean of the Faculties.

3) Election of IUSD Faculty Council representatives to the Administrator Review Committees assigned to review the performance of all department chairs and associate deans at IUSD.

4) Development of a new IUSD Faculty Development Program, subsequently adopted by the Planning Committee and currently in the process of implementation.

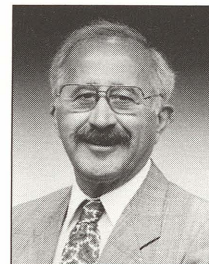
5) Finalization, through a subcommittee chaired by Dr. George P. Willis, associate professor of operative dentistry, of lecture and laboratory course/instructor evaluation forms.

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Two long-time IU professors retired from the dental school faculty during the 1991-92 academic year.

Varoujan A. Chalian, chair, maxillofacial prosthetics section of prosthodontics; professor of prosthodontics (School of Dentistry) and of otolaryngology—head and neck surgery (School of Medicine). It

is fitting that Dr. Chalian, one of the nation's pioneers in maxillofacial prosthetics, is now compiling a book on the American history of maxillofacial prosthetics—a specialty that has benefited from his substantial contributions for more than 30 years. Dr. Chalian has continued to work on the book since his retirement from Indiana University on February 29.



Varoujan A. Chalian

Originally from Lebanon, Dr. Chalian earned a baccalaureate degree from Armenian College, Beirut, in 1945. A decade later he received his dental degree from Ecole de Chirurgie Dentaire et de Stomatologie, Paris, France. Before joining the IU faculty in 1960 Dr. Chalian completed an externship at a hospital in Paris, an internship at West Massachusetts Cancer Hospital in Westfield, and residencies at Philadelphia General Hospital and the M.D. Anderson Tumor Institute at the University of Texas, Houston.

Dr. Chalian was appointed at IU to direct a newly established maxillofacial prosthetics clinic for postdoctoral students, the only one of its kind at the time. As Dr. Ralph E. McDonald, former dean of the IU dental school, wrote in the *Alumni Bulletin* in 1984, Dr. Chalian started "with little more than boundless enthusiasm for his relatively new discipline" and created "one of the largest, most successful and prestigious training programs in the country."

Eight years after the clinic was started, it officially became the Department of Maxillofacial Prosthetics and was chaired by Dr. Chalian. The department offered a three-year graduate program leading to the MSD degree in maxillofacial prosthetics, a one-year postdoctoral training program leading to certification, and a one-year training program for certified dental technicians. (In 1986 the departments of fixed and removable partial prosthodontics, complete denture, and maxillofacial prosthetics combined; Dr. Chalian was named to chair the maxillofacial prosthetics section.)

Dr. Chalian holds two degrees from Indiana University—a DDS, earned in 1964, and an MSD in 1976. Since 1968 he has been jointly appointed in the School of Medicine's Department of Otolaryngology—Head and Neck Surgery. He is a diplomate of the American Board of Prosthodontics.

Dr. Chalian also is a fellow of the International College of Dentists and the American College of Dentists (ACD) and is currently serving as chair of the ACD's Indiana section.

He is a past president of the American Academy of Maxillofacial Prosthetics and a recipient of the Andrew Ackerman Award, the highest honor bestowed by the Academy. He is a member of numerous professional organizations, including Omicron Kappa Upsilon (OKU) dental honor society. Other awards include recognition from the State of Kentucky as a "Kentucky Colonel"; a certificate from the USS HOPE, upon which Dr. Chalian served during a dental mission to Ceylon (now Sri Lanka) in the 1960s; and honors from the University of Ceylon and Ceylon's Cancer Institute.

During his tenure on the IU faculty Dr. Chalian contributed to activities of the IUPUI Faculty Council and the IU medical center's Craniofacial Team. Dr. Chalian's many consultancies in maxillofacial prosthetics include the National Cancer Institute of the NIH and Walter Reed Army Hospital. He has presented lectures, papers, and table clinics throughout the country and in many parts of the world. He has also written extensively and is best known as the principal author of the textbook *Maxillofacial Prosthetics: Multidisciplinary Practice*, published in 1971.

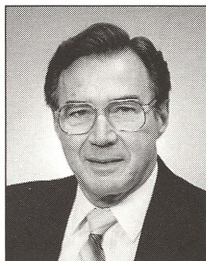
In 1984 Dr. Chalian received one of the highest honors bestowed by Indiana University—an all-university award for distinguished teaching, which has been awarded to only four other members of the dental faculty.

David M. Dickey, associate professor of dental diagnostic sciences and clinical chair, section of oral diagnosis/oral medicine. Dr. Dickey's retirement on June 30 brought to a close a distinguished teaching career spanning two decades.

Born in Chillicothe, Ohio, he studied at Miami (Ohio) University before enrolling in dental school at The Ohio State University. After earning his degree in 1955, he served as a Captain in the Army Dental Corps at Fort Ord, California, for two years. He then practiced general dentistry full-time in Columbus, Ohio, for the next 12 years.

Dr. Dickey was accepted into IU's graduate program in oral diagnosis/oral medicine in 1970; he earned a certificate in 1972 and the Master of Science in Dentistry degree in 1974 after completing a thesis entitled "Clinical and Microscopic Pulp Response to a Composite Restorative Material." He joined IU's oral diagnosis/oral medicine faculty in 1972 to serve as acting chair of the undergraduate clinical division and was appointed chair two years later. He became a member of the graduate dental faculty in 1974. In the mid-'70s he served as acting director of the graduate division of oral diagnosis/oral medicine.

During his tenure Dr. Dickey taught a wide range of clinical and didactic classes to students of dentistry, dental hygiene, and graduate dentistry. He was for many years a dental consultant to the Veterans Administration Hospital. For much of his career Dr. Dickey was active in various research organizations and served as president of the Indiana Section of the American Association for Dental Research (AADR) in 1981-82.



David M. Dickey

Dr. Dickey was for several years secretary-treasurer of Theta Theta Chapter of OKU and was elected president in 1990.

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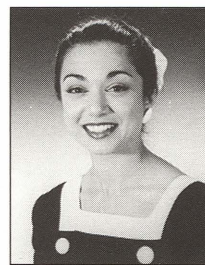
The IU Trustees approved promotions for five dental faculty members, effective July 1, 1992:

From associate professor to professor: **Charles J. Goodacre**, prosthodontics; **Byron L. Olson** and **Kichuel K. Park**, preventive and community dentistry. From assistant professor to associate professor: **David T. Brown** and **Rose Marie Jones**, prosthodontics.

The following members were reappointed with tenure, effective July 1, 1993: **Carl J. Andres**, **David T. Brown**, and **Rose Marie Jones**, prosthodontics; and **Cecil E. Brown, Jr.**, endodontics.

Seven new full-time faculty members accepted positions at IUSD at the end of the 1991-92 fiscal year, or shortly thereafter:

Gay M. Derderian, assistant professor of periodontics. Dr. Derderian earned a dental degree from Loyola University in 1983 after completing a three-year undergraduate program at Alverno College in Milwaukee, Wisconsin.

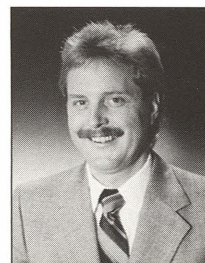


Gay M. Derderian

Before enrolling in IU's two-year graduate program in periodontics, Dr. Derderian was a full-time general practitioner in Milwaukee, Wisconsin, for seven years, and a faculty member at Marquette University for three years. A 1992 graduate of IU's MSD degree program in periodontics, she submitted a thesis project entitled "In Vitro Study of the Co-Cultivation of *Actinobacillus Actinomycetemcomitans* and Oral Amoebae."

Dr. Derderian plans to continue her research in conjunction with the clinical pathology department at IU Hospitals. She has joined the school's Dental Faculty Private Practice program, limiting her practice to periodontics.

Edward J. DeSchepper, associate professor of operative dentistry. Dr. DeSchepper comes to IU from his most recent position as associate professor of operative dentistry at the University of Texas Health Science Center at Houston, Dental Branch, where he was employed for five years.



Edward J. DeSchepper

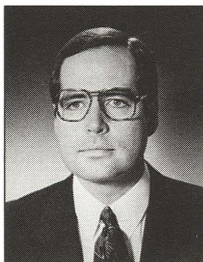
From 1982 until 1987 Dr. DeSchepper was an instructor in operative dentistry at the University of Missouri-Kansas City. He graduated with distinction in dentistry from UMKC in 1981. Dr. DeSchepper is also a 1977 magna cum laude graduate of a baccalaureate degree program in physical science at Memphis (Tennessee) State University, and a 1987 graduate of a master's degree program in adult and continuing education at UMKC.

Dr. DeSchepper is a member of the Mu Mu Chapter of OKU. Last year he was named to the Dean's Teaching Excellence List at the University of Texas. He has written for sev-

eral dental publications, including the *Journal of Dental Education* and *Oral Surgery/Oral Medicine/Oral Pathology*, and has presented papers at meetings of the AADR and International Association for Dental Research (IADR).

Dr. DeSchepper will serve IU as a clinical cluster director and a pre-clinical instructor in the operative dentistry laboratory. He is also enrolled as a part-time graduate student in operative dentistry's master's degree program. His primary research interests include prevention of secondary caries and adhesive bonding.

Ronald R. Hathaway, assistant professor of orthodontics. Prior to his appointment at IU, Dr. Hathaway had been a member of the Baylor College of Dentistry's orthodontic faculty since 1988. Between 1989 and 1992 he served concurrently in the following positions: as assistant clinical professor of orthodontics at Baylor, where he directed graduate dentofacial orthopedics and taught in the graduate orthognathic surgery clinic; as director of orthodontics in the division of oral and maxillofacial surgery, Department of Surgery, at the University of Texas Southwestern Medical Center at Dallas; and as chief attending orthodontist at four Dallas area hospitals.



Ronald R. Hathaway

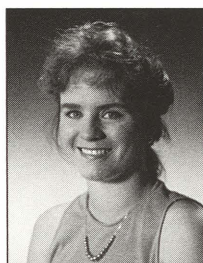
Dr. Hathaway holds four degrees, including a BA in psychology, University of Notre Dame (1977); an MS in speech pathology (awarded with high honors), Vanderbilt School of Medicine (1979); a DDS from the University of Iowa (1984); and an MS in orthodontics, University of Detroit (1987). In 1985 he earned a general practice residency certificate from Cleveland Metropolitan General Hospital.

Dr. Hathaway was briefly in private practice in Lansing and Birmingham, Michigan.

In the past decade Dr. Hathaway has received several research grants, including a \$4,000 award this year from the American Association of Orthodontists entitled "Program Development in Myofunctional Disorders." Dr. Hathaway has presented results of his work at various professional meetings nationally and internationally, and his articles have appeared in such publications as *Modern Practice in Orthognathic and Reconstructive Surgery* and the *Cleft Palate Journal*. He serves on the multidisciplinary editorial board of the *Journal of Craniofacial Surgery*, is a manuscript reviewer for the *American Journal of Orthodontics* and *Dentofacial Orthopedics*, and is an examination construction consultant for the Northeast Regional Board.

One of Dr. Hathaway's key roles on the IU faculty will be as director of orthodontics for Riley Children's Hospital Craniofacial Team. His clinical and research interests include craniofacial neuroscience, surgical orthodontics, and developmental problems of the growing face.

Mary L. Rehmel, lecturer in dental hygiene. Ms. Rehmel holds two Indiana University degrees—an Associate of Science in Dental Hygiene (1986) and a Bachelor's Degree in Dental Hygiene Public Health (1987). She was the 1986 recipient of IU's Rossya Kaufman



Mary L. Rehmel

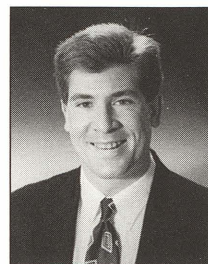
Memorial Award, given for community service in dental hygiene.

Since graduation Ms. Rehmel has been active in both private practice and academic environments. She has worked as a dental hygienist in general and pediatric dentistry practices in Indianapolis. From 1988 to 1991 she also held a part-time appointment as an instructor in IU's dental hygiene department, teaching clinical and didactic courses. Last year she served full-time as a lecturer in dental hygiene while search and screen proceedings were undertaken to fill the position that she now holds.

In 1987 Ms. Rehmel planned and implemented a dental health program for Morristown (Indiana) Elementary School as a representative of the Indiana State Department of Health. She is currently a volunteer instructor in cardiopulmonary resuscitation.

Ms. Rehmel's primary responsibility in the dental hygiene division is to teach a course entitled Dental Health Education to second-year students as a prerequisite to their Community Dental Health course.

David D. Rolf II, assistant professor of periodontics. Dr. Rolf's appointment on the IU faculty brings him back to the city where he was born and raised. He recently completed the University of Iowa's two-year master's degree program in periodontics. His thesis project was entitled "Potent Polypeptide Growth and Differentiation Factors Enhance Wound Regeneration In Vivo." He was the graduate student table clinic winner of the Iowa section of the AADR, and was named the Iowa Dental Association's Honor Clinician.



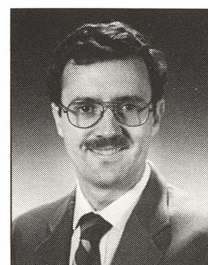
David D. Rolf II

Dr. Rolf holds a BA degree in psychology from IU (1983) and a DMD degree from Washington University, St. Louis, Missouri (1987). After graduating from dental school Dr. Rolf entered a one-year internship with a private practitioner in Newport Beach, California, followed by a year as an associate of a periodontist in Santa Ana and Irvine, California. Dr. Rolf conducted a solo general dentistry practice in Tustin, California, from 1988 to 1990.

Dr. Rolf's memberships include the American Academy of Periodontology and Delta Sigma Delta professional fraternity. His interests as a faculty member involve the research and clinical applications of regeneration, diagnostics, and implantology.

Mark M. Winkler, assistant professor of dental materials. Dr. Winkler was appointed to the IU faculty after completing a one-year fellowship in IU's Department of Dental Materials.

He is a 1991 graduate of a PhD degree program in biological materials at Northwestern University, where he had earned a master's degree in the same field three years earlier. His dissertation was entitled "Wear and Shear Measurements of Dental Resins and Their Statistical Analyses." Dr. Winkler also holds a dental degree from Louisiana State University (1981) and a Bachelor of Arts degree in biology from the University of New Orleans (1977).



Mark M. Winkler

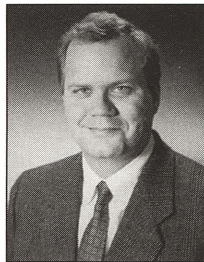
For several years Dr. Winkler conducted a private practice in New Orleans while teaching fixed prosthodontics on the LSU faculty. He was supported by two institutional research training grants during his studies at Northwestern.

Dr. Winkler's articles have appeared in *Dental Materials* and a number of journals focusing on nutrition research.

He has been inducted into numerous honorary organizations including OKU and C. Edmund Kells societies. Dr. Winkler won the first place graduate award at Northwestern's annual student research symposium.

Dr. Winkler's research at IU will focus on studying surface characterization of dental materials in order to increase their bond strength, and on developing a practical and accurate method of assessing wear of posterior composites.

Mark E. Wohlford, assistant professor of oral and maxillofacial surgery. Dr. Wohlford is a 1992 graduate of the PhD degree program in pathology at The Ohio State University. His dissertation was entitled "Regulation of Human Leukocyte Antigens on Cytomegalovirus Infected Cells." He also completed Ohio State's four-year certificate program in oral and maxillofacial surgery.



Mark E. Wohlford

Dr. Wohlford's dental degree (1985) and bachelor's degree in zoology (1981) were both earned at the University of Iowa. During his years at Iowa he was inducted into Phi Eta Sigma and Phi Beta Kappa national honor societies. He received dental student awards from the American Dental Society of Anesthesiology and the Pierre Fauchard Academy in 1985. In 1988 Dr. Wohlford was selected for a Dental Scientist Fellowship at Ohio State; in 1990 he received the Walter Lorenz Junior Investigator Award from the IADR.

Dr. Wohlford is the co-author of several articles and abstracts appearing in such publications as the *Journal of Oral & Maxillofacial Surgery* and the *Journal of Dental Research*.

Dr. Wohlford's primary mission at IU will be to establish a research program in molecular pathology and to train residents in the full scope of oral and maxillofacial surgery.

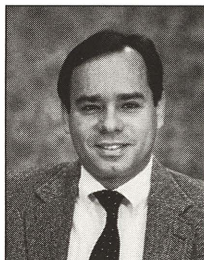
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The School of Dentistry reports the death of one faculty member during the past fiscal year—**Luis A. Santos**, a full-time clinical assistant professor of periodontics, who died June 26, 1992.

Dr. Santos was born in Santurce, Puerto Rico, in 1957, and was a 1983 dental graduate of the University of Puerto Rico. He also held a bachelor's degree in biology from that university. He practiced as a full-time general dentist in San Juan from 1983 to 1985, and served as prevention program coordinator for public schools in the area.

Dr. Santos was appointed to the IU faculty in 1987 after he completed a periodontic training program at the Henry M. Goldman School of Graduate Dentistry at Boston University.

His professional memberships included the Indiana Society



Luis A. Santos

of Periodontists and the American Academy of Periodontology.

Dr. Santos was buried in Cidra, Puerto Rico. He is survived by his parents, Armando and Clara Torres de Santos; brothers, Armando and Carlos; sister, Rosita de Santos; two nieces and six nephews. All reside in Cidra.

In July a memorial service was held at University Hospital on the IUPUI campus for Dr. Santos' family, friends, students, and colleagues.

Development

The Office of Development has been in a period of transition since Danny R. Dean resigned from his position as director of development and assistant dean in June. An ad hoc search and screen committee headed by Timothy L. Seiler, PhD, vice president of the Indiana University Foundation, began the process of selecting a new director at the close of the fiscal year.

For the 1991 calendar year, individual gifts to the dental school totaled \$419,680.44, according to Joyce E. Stafford, senior administrative secretary for development. A list of the school's supporters begins on page 17.

IU Foundation President Curtis R. Simic reported in the March issue of *Foundation Update* that a record number of donors made gifts to the Foundation for IU in 1991. Gifts totaled \$49.6 million, the third highest figure in the history of giving for the benefit of the University. (Totals were higher only in 1986 and 1989, during The Campaign for Indiana.)

According to Mr. Simic's report, about 96 percent of the 1991 gifts were restricted by donors to purposes and programs important to them. These gifts were placed into 4,400 accounts established at the Foundation by chancellors, deans, and department and program heads to be used for many purposes, including student and faculty support and the purchase of equipment.

The impact of individual giving was evident as usual at the dental school throughout the fiscal year. One such gift resulted in the refurbishing of the patient reception area in the Department of Prosthodontics, a much-needed project made possible with a lead gift from part-time prosthodontic faculty member Dr. R. Stephen Lehman, who also was instrumental in the acquisition of other gifts.

Between 1969 and 1975, a special NIH grant obtained by the late Dr. Ralph W. Phillips was used to train seven young men in a unique double-major program in prosthodontics and dental materials. One of those men was Dr. Lehman, who saw the reception room renovation project as an opportunity to pay back some of what he says he gained through relationships with Dr. Phillips and such prosthodontic faculty members as Dr. Roland Dykema and the late Dr. Donald Cunningham. "They were my mentors," says Dr. Lehman, who practices in Carmel. "I'll never forget them."

Most of the other double-major training program grads contributed to the project as well. A plaque bearing the names of the special graduates is being planned for the reception room. They are:

Paul P. Binon, Roseville, California

Charles J. Goodacre, IU's chair of prosthodontics



R. Stephen Lehman, Carmel
 Clarence R. McCurdy, Jr., Stone Mountain, Georgia
 William R. Priester III, Memphis, Tennessee
 Johnnie E. Turner, Naval Dental Clinic, San Francisco,
 California
 Jon S. Wilkins, Winter Park, Florida

"I'm very pleased that one of our part-time faculty members has taken such an interest in this project," says Dr. Goodacre. "With the prosthodontic department's central location on the third floor, our waiting room serves as the main reception area for many of the school's patients. It is important for this facility to provide an environment for our patients and their families that is attractive, inviting, and comfortable. Steve's generosity is deeply appreciated, as are the donations from the other former students."

The reception room, designed by Cheryl J. Roberts, is

Dean H. William Gilmore poses with Dr. and Mrs. Willard Damm (photo on left) and Dr. and Mrs. Ben B. Pence at the IUPUI Spirit of Philanthropy Luncheon held in honor of the Damms and Pences and other campus supporters.



Dr. Steve Lehman (right) contributed the lead gift that helped support remodeling of the patient reception room in prosthodontics. Department chair Dr. Charles Goodacre also contributed to the project.

lovely. The upholstery, carpeting, paintings, and artificial plants form a beautiful mix of muted greens, blues, and grays that give the area an inviting, restful appearance.

A fund drive to create the Ralph W. Phillips Professorship in Dental Materials, described in a previous issue of the *Alumni Bulletin*, was launched in 1991 under direction of a 26-member steering committee headed by Donald A. McKenzie, of Scottsdale, Arizona. The group is now more than a third of the way to realizing its goal of \$300,000.

The fourth annual Spirit of Philanthropy luncheon celebration, held at the University Place Hotel ballroom in April, gave officials on the IUPUI campus an opportunity to "recognize selected individuals, corporations, and foundations who make important differences in IUPUI's academic programs through their gifts and voluntary services."

Among those honored were Dr. and Mrs. Willard H.



Damm, of Evansville. Dr. Damm, who is a 1941 dental graduate of IU, and his wife, Lillie, are longtime supporters of the dental profession, the University, and the School of Dentistry. Dr. Damm is a former member of the IUSD Alumni Association board of directors and the 1987 recipient of the group's Distinguished Service Award. In 1988 a substantial gift from the Damms was used to renovate the dental school's four lecture halls, including the installation of new lighting and carpeting. Dr. Damm has served on the Indiana Dental Association's Pursuit of Excellence Board.

Also honored were Dr. and Mrs. Ben B. Pence, Jr., of Columbus. A dental graduate of the University of Louisville, Dr. Pence completed IU's orthodontic certificate program in 1959. He received the honorary alumnus award from the IUSD Alumni Association in 1990, having formerly served on the association's board of directors and on the IUSD Endowment/Pursuit of Excellence Committee. He is also a former part-time IU orthodontic faculty member. Generous supporters of the school, the Pences most recently provided leadership in engineering support from the orthodontic alumni to renovate space for the new Biomechanics Research Laboratory at the dental school.

The awards luncheon also recognized the Indiana component of the Student American Dental Hygienists' Association, which was represented by dental hygiene student and SADHA President Tommi L. Davis (ASDH '92) and SADHA President-elect Cynthia L. Spyker (ASDH '93). SADHA was singled out for its members' recent volunteer services at James Whitcomb Riley Hospital for Children, where SADHA planned and implemented a Valentine Day gift distribution program for hospitalized children.

Continuing Education

Dramatic increases—both in number of CE hours offered and number of persons participating—best describe the past year in IUSD's division of continuing education, according to CE director Dr. Donald E. Arens. A total of 780 contact hours were offered through a great variety of programming, and some 1,400 dental health professionals participated.

The numbers reflect in part the educational requirement that was signed into law in Indiana in March. "That change is to some extent responsible," says Dr. Arens. "But on course critiques, participants have attributed the quality of our programs as the reason they attended. This is reassuring since our goal, as stated in 1988, is to create an educational environment that warrants the participants' attendance and trust."

Dr. Arens views the current period as "a critical time for dental schools throughout the U.S. It is through a strong CE program that schools must support their dentist and dental auxiliary base. We are proud of our preceptorship programs of the past year in which general practitioners attended selected graduate education courses; our advanced 'hands on' laboratory and clinical case workshops which offered a practical way to learn; our new series of five half-day programs for dental hygienists; and our specialty courses directed toward such groups as surgeons, endodontists, and orthodontists."

In May the Indiana Dental Association/IUSD Academy of Continuing Education featured Dr. Reuben "Pete" Roach, president of the Florida Academy of Dental Practice Administration, St. Petersburg. His presentation on restorative den-

tistry was heard by 347 persons—a record number of participants.

Dr. Arens underscores the importance of every dental professional assisting IU in its effort to be a top provider of quality dental education programs by offering feedback about courses attended as well as suggestions for the future. "Your letters and comments indicate we are providing a valuable service, but we wish to continue to improve," he says. "We want to know what presenters you would like to see, and what topics you would like to have covered. We welcome your input, both as a participant of current programming and as an adviser for programs in the future. Let us know how we can help meet your CE needs."

Outreach

Through a variety of credited and volunteer dental health awareness programs, IUSD students, faculty, and staff once again marshaled their resources to reach out to persons around the state. A few sample projects include:

- Students in Course H347, a community dental health course taught by Professor Louise M. Judd that is required of all second-year dental hygiene students, embarked on myriad dental health awareness missions throughout the city during spring semester. Dividing into small groups, the Dental Hygiene Class of 1992 brought dental health education to more than 1,200 persons in 11 daycare centers, eight schools, eight geriatric well centers, and seven nursing homes.
- Eleven dental hygiene students served as auxiliaries in a dental screening program offered by the Indiana State Department of Health at the Indiana Black Expo Health Fair last summer.
- HealthScan, IU's series of one-minute radio health tips produced by University Relations and External Affairs on the Bloomington campus, continued to air on radio stations throughout Indiana (30 altogether, including one in Michigan). The dental school's 1991-92 radio spots, prepared from faculty interviews, were:

"Bruxism," by *Steven L. Bricker*

"Teeth Sensitivity," by *Timothy J. Carlson*

"Nicotine Transdermal System," by *Arden G. Christen*

"Children's Teeth," by *Christopher V. Hughes*

Dental hygiene student Stephanie Stafford (left) and seven of her classmates devoted one of their summer Saturdays to the WFYI television station's Family Fun Festival, helping to make the day-long "Sesame Street" festival informative as well as fun by staffing a dental health awareness booth.



"Fruit, Fruit Juices, and Your Teeth," by *Kichuel K. Park*
 "Saliva," by *Kichuel K. Park*
 "Denture Identification," by *Larry D. Ryan*
 "Heart Conditions and Dental Care," by *D. Chester Swimley*

- The two-year Sealant Program, made possible with a grant from the Indianapolis Foundation, was extended in order to reach its goal of placing protective sealants on the teeth of 700 children in need throughout the city. The Boys and Girls Clubs of Indianapolis have been the primary patient source for this project. To date, 34 sealant clinics have been held in the pediatric dentistry clinic at the dental school; 519 children have received a total of 1,721 sealants.

- The Oral Health Research Institute's long-time fluoride rinse program for school children statewide was active in 281 schools in 62 counties during 1991-92. There were a total of 62,455 participants.

- Fourth-year dental and second-year dental hygiene students continued to fulfill one of their special clinic assignments by providing treatment on-site to residents of the Marion County Healthcare Center. The program is supervised by Dr. Paul A. Zitterbart, assistant professor of dental diagnostic sciences and coordinator of geriatric dentistry in preventive and community dentistry.

- The Student Affairs Council celebrated Children's Dental Health Month last February by offering its annual dental health fair on a Saturday at the dental school. About 50 school-aged children were given free oral examinations, fluoride rinse treatments, tooth brushing instruction, and nutritional information. The fair was coordinated by Isabel Vahedi, Class of '95.

- Four of IU's part-time dental faculty members and an IUSD alumna were part of a cooperative effort between the Indiana State Department of Health and the Indiana Dental Association that resulted in creation of a training video for persons who provide daily oral hygiene care to others whose physical or mental disabilities prevent them from accomplishing the task themselves. Copies of the 30-minute program entitled *Caregiver's Guide to Oral Health* were distributed at no charge throughout Indiana to 1,200 agencies and institutions that serve persons with disabilities. (The tape can be ordered from the ISDH by individuals or other agencies for \$6.) The following persons volunteered their services to this valuable ISDH/IDA project: Karen Masbaum Yoder, assistant professor of preventive and community dentistry, who served as technical director and also appeared in the video (see the March/April '92 issue of the IDA journal for Karen's article about the project); and "cast" members Dr. Charles E. Smith,



Dr. Hala Z. Henderson, associate dean for student affairs, addresses a lecture hall packed with participants of the school's annual recruitment day and second-year dental hygiene student Monice Copeland (center of inset photo) responds to questions from Dental Day visitors on their tour of IU's Division of Dental Auxiliary Education.



associate professor of preventive and community dentistry; Dr. Charles Poland III, associate professor of pediatric dentistry (consultant); Dr. Raymond M. Maddox, assistant professor of preventive and community dentistry; and Dr. Edna F. Kemp ('91), a dentist on the ISDH migrant dental team. Dr. Poland is a member of the Governor's Commission for the Handicapped and Dr. Maddox is a member of the Governor's Task Force for Healthy Older People.

Careers Awareness Events

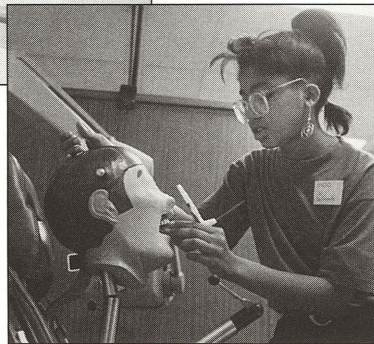
The dental school took its usual energetic approach in finding ways to attract bright young students to careers in dentistry. By far the biggest event of the year was Dental Day, sponsored in the fall by the first-year dental class and the dental auxiliary education classes and coordinated by Matthew Hill ('95). The annual program typically fills two lecture halls with students and their families, who are treated to an up-close view of dental school by the people most qualified to share an opinion: current students of dentistry. Tours and hands-on laboratory exercises rounded out a day that owes its success, in Matt Hill's view, to the spirit of volunteerism in his class.

"A lady at the Dental Day lab demonstrations asked me if I knew how many people in my class went to Dental Day last year," Matt said. "I stood up and pointed to virtually everyone who was helping out in the lab. These students didn't have to help with Dental Day, but they did it because they want to make life easier for students coming up in the next class. You can't really explain it—it just kind of happens. It's not a situation of 'I'll help you if you help me'; it's more like 'I'll help you if you in turn help someone else.'"

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Dr. Timothy Carlson (above left) leads IUPUI's Young Scholars on a discovery mission in the dental school's radiology division while Young Scholar Joi Defrantz (inset) tries her hand at dentistry, with a little help from a very patient patient.



The seventh annual SEEK day brought students on the Bloomington campus to the dental school in February. The program, offered in cooperation with IU's Career Development Center in Bloomington, personifies a highly successful team approach to recruitment. A new component to this year's site visit was the addition of a session with periodontic postdoctoral students Drs. Carl Lerner and Stephen Cottrell, who introduced the group to specialty program options beyond the dental degree.

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A dozen central Indiana children in grades seven through nine set aside two weeks of their summer vacation in 1991 to find out a few facts about dentistry through the IUPUI Young Scholars Program. This popular campus-wide event, sponsored by the IUPUI Honors Program, puts youngsters in touch with a variety of career opportunities in addition to dentistry. Dental school site coordinator Dr. Timothy J. Carlson, associate professor of operative dentistry, and seven other dental faculty members conducted an array of dental lectures, labs, and demonstrations during the two weeks that the youngsters attended "school" in the dental building. The time-honored Young Scholars assignment of fabricating personalized "vampire" teeth once again mixed loads of laughs with the rudiments of actual denture construction.

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During the 1991-92 fiscal year Dr. LaForrest D. Garner, associate dean for minority student services, recruited minority students by visiting colleges and universities in Alabama, North Carolina, Mississippi, Illinois, and Indiana.

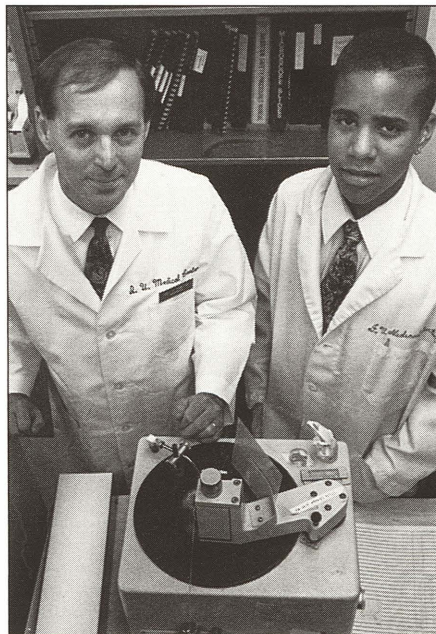
With funds received from the NIH, Dr. Garner selected 10 minority high school students to participate in an eight-week project designed to expose them to scientific research. The Minority High School Student Research Apprentice Program paid each student \$1,650 for working on a research project with faculty and staff mentors throughout the dental school and at the Oral Health Research Institute. Students spent the first two weeks blending lectures and seminars with lab work, and the last six working one-to-one with their mentor on projects ranging from bone implants to cell mitosis to studying

the effects of smokeless tobacco on gingiva. The students presented their results at meetings attended by mentors and students alike.

A new twist to this annual summer course was the addition of James Albright, a chemistry teacher who brought a unique perspective as Northwest High School's science director. "I'm just amazed at the things the kids have been working on, and the equipment they've gotten to use," he said. "The information I've gathered in the lectures and labs has shown me a lot of things we need to be teaching to prepare our students for college. I would like to get people from the dental faculty to come to our school and the other Indianapolis Public Schools to give kids a glimpse of what the dental school has to offer."

Dr. Garner shares the goal. "If we can establish closer ties with IPS, we'll be able to attract more young men and women into fields that are based on math and science. That's good for all of us. And we hope that when they see what we have to offer here at the dental school, they'll want to come here, which will help us."

All participants except one were Indianapolis teenagers, including Gabriel Jackson and Crystal Lee, Ben Davis High School; Sarah Floyd and April Keaton, Broad Ripple; Nicole Washington, Arsenal Technical; Lesley Wilson, Warren Central; Jamal Flowers, Lawrence Central; Lukeysa Golden, Howe; and Angela King, Brebeuf Preparatory. The group also included Toiya Crump, a Washington High School student from Soul City, North Carolina.



Lawrence Central High School senior Jamal Flowers (right) worked on a research project in the orthodontic department under the guidance of Dr. Lawrence Garetto, director of the IUSD Bone Research Laboratory. The NIH-funded apprentice program helped 10 teenagers gain insight into the broad spectrum of research opportunities available in dentistry.

Other News in Brief

A series of faculty meetings leading up to the American Dental Association's much anticipated **accreditation site visit** culminated with a conference on June 2, bringing full-time faculty members together with student leaders to discuss educational outcomes and assessment. With the lion's share of site-visit preparation completed at the time of this writing, the



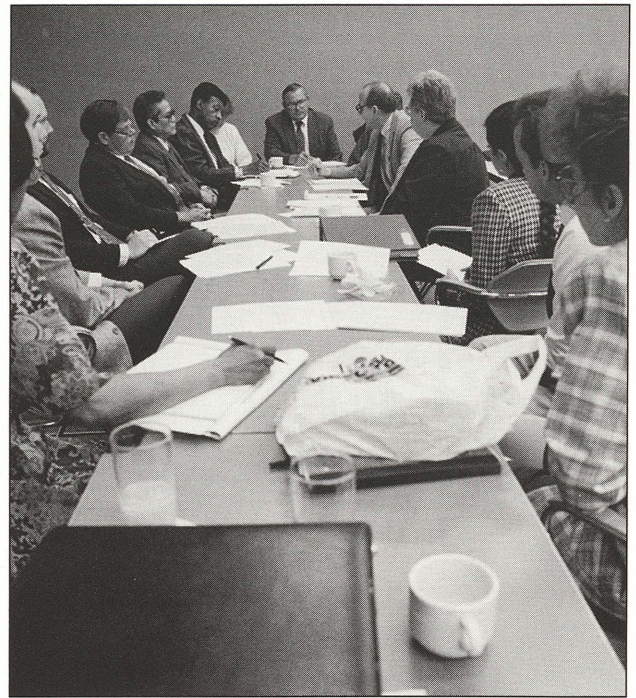
Dental hygiene faculty member Louise Judd (above) waits her turn to offer suggestions on outcomes assessment during a faculty conference in January held in preparation for the upcoming ADA accreditation site visit. Dr. Carl Andres (center of photo at right) guides another faculty discussion at a conference in June.

dental school—led by the Ad Hoc Committee on Accreditation—awaits the arrival of the site team visitors, who are expected during the last week of October 1992. The school last underwent an accreditation site visit a decade ago.

In 1991 the dental school's Oral Pathology Group, headed by Dr. **Lawrence I. Goldblatt**, professor of oral pathology, examined 5,835 biopsies sent in by 1,216 dentists and physicians throughout Indiana and by 440 offices in other states and Canada. Dr. **Charles E. Tomich**, professor and chair of the Department of Oral Pathology, recently completed a three-year term as the oral pathologist on the Anatomic Pathology Test Construction Committee for the American Board of Pathology, and a five-year term on the Pathology-Microbiology Test Construction Committee for the (ADA) National Dental Examinations.

Dr. **David R. Avery**, professor and chair of pediatric dentistry, completed his 16th year as the preceptor for a one-year United Cerebral Palsy Clinical Fellowship, which IUSD has been awarded from the United Palsy Research and Educational Foundation, Inc., for 33 consecutive years. Recipient of the fellowship in 1991-92 was **Leslie K. Tanimura**, a University of Southern California dental graduate who completed IU's two-year pediatric dentistry residency program in June 1991.

A formal training course in light conscious intravenous sedation created by oral and maxillofacial surgery professor Dr. **Wilfrid M. Keaton** in 1990 was broadened to include Advanced Cardiac Life Support during the past fiscal year. The course, which includes 60 hours of didactic training and requires completion of 10 clinical cases, is voluntary for predoctoral students and mandatory for postdoctoral students in endodontics, periodontics, and advanced education in general dentistry. Because of the outstanding performance of the eight fourth-year students enrolled during the past academic year, enrollment has been increased to include 12 predoctoral students for 1992-93. Recent course graduates are **Theresa Block, Skipper Cheesman, William Flora, Robert Gottschalk, Gary Pascua, Gina Salkeld, Steven Schimmele, and Ronald Steinbrunner**, all of the Class of '92. (The biggest challenge ahead for Dr. Keaton may be in trying to determine who gets accepted into the class in the future and who doesn't—at least 50 percent of the Class of '93 showed an interest in participating.)



An abundance of computerized reference materials and three additional (and conveniently located) terminals have been added to the dental school library in the past year. To sufficiently keep pace with all of the developments in the library (including those affecting IO, the automated library system used by Indiana University), one should take advantage of the dental library's standing invitation to drop by for a thorough tour of the facility, conducted by head librarian **Sara A. Hook-Shelton** or one of the library's six talented staff members.

Grants that Ms. Hook-Shelton obtained from the Indianapolis Foundation have enabled the library to add a *FirstSearch* system and three new CD-ROM systems to the computer room. According to information published in the library's newsletter, *The Library Tipster News*, *FirstSearch* "provides computerized access to many popular databases in biology, education, consumer affairs, and current events." (And you don't have to be an experienced computer user in order to put *FirstSearch* to work!) The CD-ROM systems provide information beyond what is available on the MEDLINE disks—they access government-sponsored research and development projects, scientific and technical information, and statistics and facts about the nation's 50 states, its territories and protectorates.

The library has ordered an Online Journal, created by the American Association for the Advancement of Science. It lets researchers keep abreast of developments in their field—while they are still developing! "...Online Journal of Current Clinical Trials will deliver peer-reviewed clinical trials research within 24 hours of acceptance by the editor," Ms. Hook-Shelton reports in the newsletter. "The Online Journal of Current Clinical Trials is the first research journal to be published online, via computer. It is not a database or bulletin board; it is a real journal. It will deliver primary research, not reprints from other publications. It will also be full text, rather than just abstracts, along with charts, tables, and graphs..."

Dr. Hala Z. Henderson, associate dean for student affairs, reports that in addition to the official predoctoral student exchange program launched between IUSD and Turner Dental

School at University of Manchester Dental Hospital (described in detail on page 36), several other predoctoral exchanges took place during the past year, including:

- **Thekla Wandelt**, a second-year dental student from Free University of Berlin, Germany, spent seven weeks studying at IU
- IU dental student **Su Kang** visited Yonsei University College of Dentistry in Seoul, Korea, for three weeks after his third year of studies here
- IU dental students **Jerold Kouchi** (fourth year) and **Andrew Alexander, Darin Kajioaka, and Kevin Sugiki** (all third year) traveled to Matsumoto Dental College in Shiojiri, Japan, for two weeks

Seven more IU dental students were planning a trip to Matsumoto Dental College about a month before the 1992-93 academic year began.

Dr. **Arden G. Christen**, professor and chair of preventive and community dentistry, was among several smoking cessation researchers to be featured in a half-hour segment airing throughout March and April on the nationally syndicated Lifetime Television Network. Dr. Christen was chosen for the TV appearance on the medical issues program *Smoking Cessation: Investigators Roundtable* because of his role as a chief investigator (and head of the only dental research group) for a multicenter study of a transdermal nicotine system for smoking cessation. Results of the study, published in the December '91

issue of the *Journal of the American Medical Association*, led to FDA approval of Nicoderm, a cutaneous patch now being used as an aid to nicotine withdrawal therapy.

The TV appearance was another step in Dr. Christen's goal to create awareness among health-care providers of their potential role in smoking cessation.

"Physicians and dentists are in the best position of anyone to help people who want to quit smoking, even the hard-core smoker," Dr. Christen said in the *IU Newspaper*. "The challenge for us is to somehow get into the minds of those health-care providers. They are the critical audience for us. They're the ones who can accomplish the most at what we call the 'teachable moment.' "

The Nicoderm research data were collected during six months of testing at nine sites in the nation. The tests focused on the effectiveness of the nicotine transdermal system—the patch, which attaches to the smoker's skin, releases small doses of nicotine in decreasing portions until dependence on the drug is reduced or eliminated.

Several brands of patches have received FDA approval in recent months. Dr. Christen says that the clinical research IU was involved with showed that use of the patch system is about three times more effective than quitting cold turkey. The research also emphasized the need for a psychological component to all smoking cessation programs.

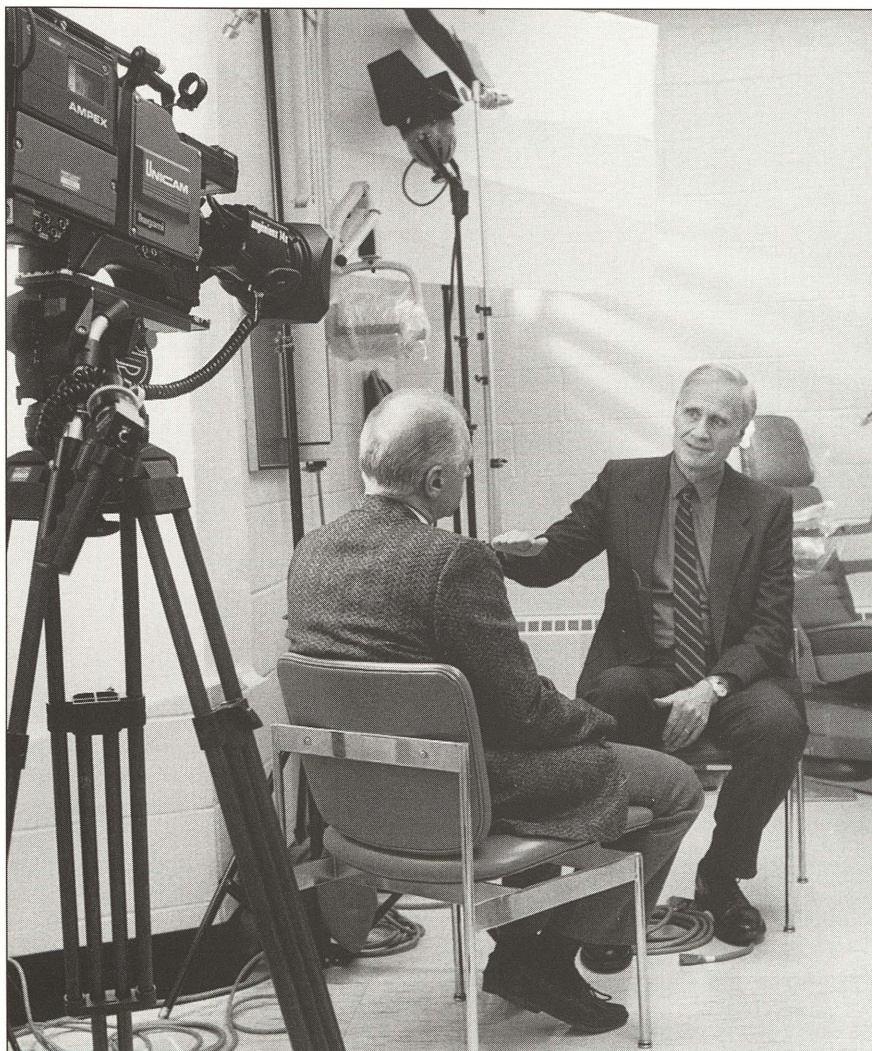
"People first have to want to quit," said Dr. Christen. "If they don't, then no program will work. If they do want to quit, we know that typically they'll try from three to eight times before they succeed. And they won't succeed if they don't have an understanding of why they smoke and what they're doing when they light up."

At the end of the fiscal year Dr. Christen was finalizing plans with Dr. **Christianne J. Guba**, director of advanced education in general dentistry, and faculty at the School of Medicine to open a campus Nicotine Dependence Program at the dental school.

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The preceding report was prepared with assistance from George K. Stookey, Ronald G. Van Hook, Hala Z. Henderson, LaForrest D. Garner, Donald R. Tharp, Lawrence I. Goldblatt, Donald E. Arens, and Ric Burrous

Dr. Christen (right) and television producer Barry Martin discuss the transdermal method of smoking cessation during filming of a medical issues program for the Lifetime Television Network.



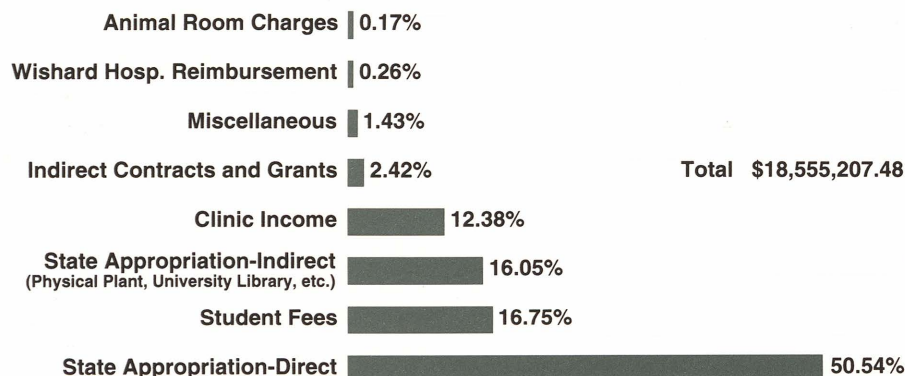
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July 1, 1991-June 30, 1992

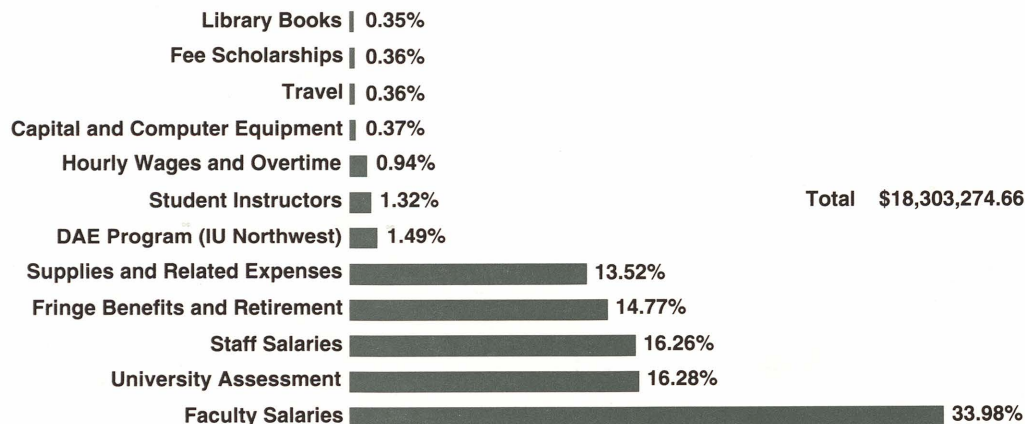
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Budget information was contributed by Lynn K. Finkel, IUSD director of administrative and financial affairs.

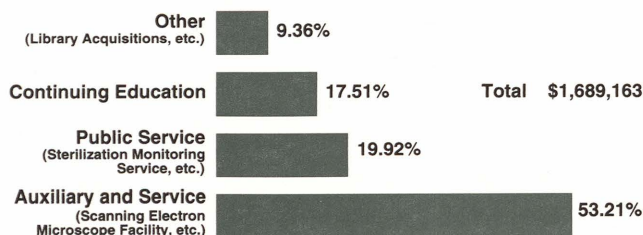
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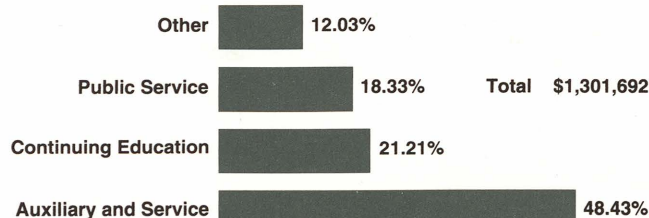
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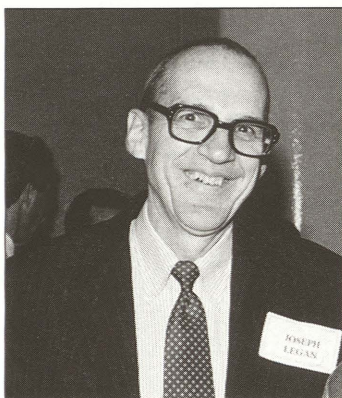
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From Brownsburg



International researchers complete year one of a five-year, NIDR-funded program project looking into the safe use of fluoride in high-risk populations

A \$3.1 million study of the pharmacologic effects of fluoride funded by the National Institute of Dental Research in September 1991 represents the first major fluoride research project to be funded in almost two decades. Principal investigator George K. Stookey is pleased that the grant was awarded to Indiana University.

"Fluoride is the backbone of dental care and prevention programs here and

Oral Health Research Institute researchers Dr. Richard D. Jackson and Sue A. Kelly are two of many IU faculty and staff members involved in the international fluoride program project. The Indiana communities of Brownsburg, Lowell, and, Connersville will each play an important role in the five-year study.

around the world," he said when the project was announced last year. "But there is always more to learn."

The NIDR decided to fund the project after a 1989 report provided equivocal evidence that lifetime exposure to very high levels of fluoride in rats might increase the risk of certain disorders, particularly skeletal problems.

Dr. Stookey, who is the IU dental school's associate dean for research and director of the Oral Health Research Institute (OHRI), is coordinating the efforts of researchers at the Institute, the IU School of Medicine, and the People's Republic of China; he will eventually draw researchers from Ecuador into the study as well.

The research is composed of three major projects, all of which got under way during the past fiscal year.

Dr. Ann J. Dunipace, the Institute's associate director of preclinical research, heads a laboratory team that has started to evaluate the effects of chronic fluoride exposure on medically-compromised rodents in which the body's ability to metabolize fluoride may be altered.

A second, clinical group, directed by Dr. Richard D. Jackson, an OHRI research associate, finalized plans to enlist the help of citizens in the Indiana cities of Brownsburg, Lowell, and Connersville in the research. Persons who are at least 35 years of age and have lived most of their lives in one of those cities will play an instrumental role in the study of how long-term ingestion of natural fluoride in the local water supply affects a person's health.

Connersville has been selected as a test site because of its low concentration of fluoride in the city water supply, Lowell because of its unusually high concentration, and Brownsburg because of its optimal concentration. (Optimal fluoride is the amount needed to reduce tooth decay without causing tooth mottling.)

Sue A. Kelly, OHRI assistant director of clinical research, is meeting with service organizations and churches in the three study areas to ask for assistance in recruiting potential panelists. Participants will be seen for one 20-minute appointment by the researchers, who will take blood and urine samples and perform a dental exam to look for tooth staining and tooth decay. The appointments are scheduled to begin in late fall of 1992.

The clinical group also plans to focus on medically-compromised patients with diabetes, renal disease or osteoporosis who might be more likely to encounter any adverse effects from exposure to high levels of fluoride. Medically-compromised patients in Los Angeles, California, have been identified to assist with this portion of the study.

Dr. Stookey leads the third project—the international branch of the research—which is a series of investigations of the impact nutritional inadequacies have on the safe use of fluoride by people living in China and Ecuador.

During May and June, 240 life-long residents of Shunyi and Nongan counties in the People's Republic of China participated in a study of the biological effects of fluoride conducted by Chinese researchers at the Institute of Environmental Health and Engineering, Beijing, People's Republic of China.

Citizens of these two rural counties have comparable intake of daily protein, calcium, and calories, but are quite dissimilar in their intake of natural fluoride: Nongan County residents ingest approximately five times more fluoride than residents in Shunyi.

Researchers found that the prevalence of coronal and root caries was inversely related to fluoride exposure, but dental fluorosis was about 10 times more prevalent in the high-fluoride population. There was also evidence of skeletal fluorosis in 86.7% of the residents in the high-fluoride community, compared to 0.0% in the low-fluoride group.

Interpreting data from all three areas of study is Dr. Barry P. Katz, associate professor of medicine (School of Medicine) and of preventive and community dentistry (School of Dentistry).

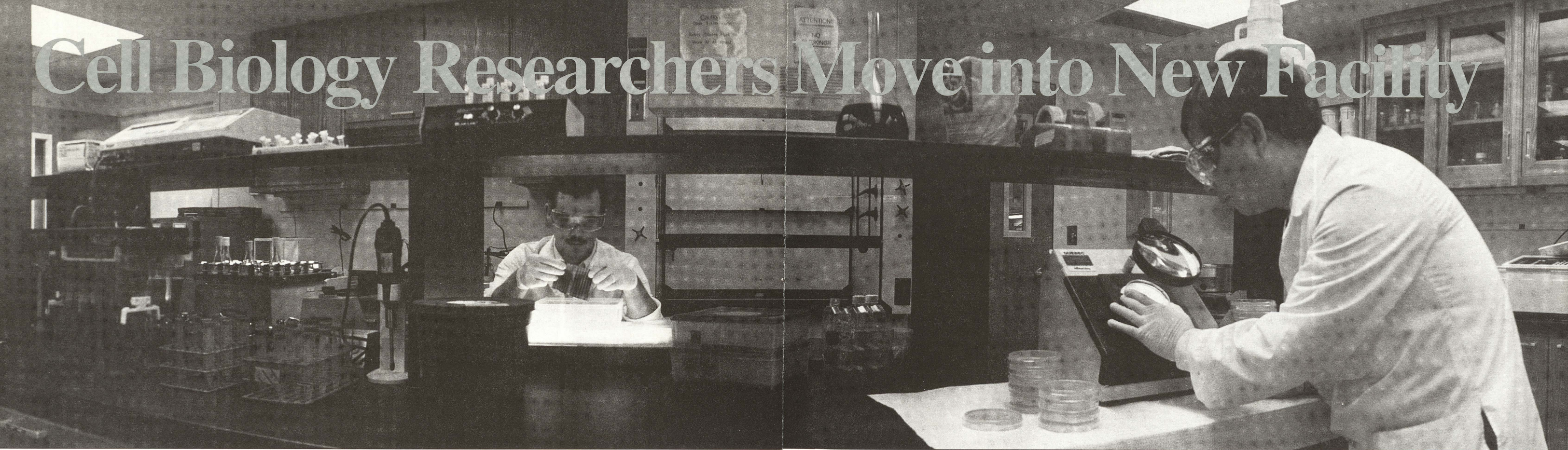
"Fluoride is the backbone of dental care and prevention programs here and around the world."

Dr. Stookey is satisfied with progress of the multi-faceted, five-year program project during its first year. He sees the opportunity to cultivate a close working relationship with other researchers on campus equally important to the relationships being established with researchers overseas.

"The day of the individual expert is all but gone," Dr. Stookey said last year. "You have to have a lot of experts in all kinds of fields to handle a project like this, from the dental and medical schools to statistical experts to help you sort out all the data."

to Beijing

Cell Biology Researchers Move into New Facility



28

Few individuals have witnessed the swift growth of the Indiana University School of Dentistry's research program quite like Dr. Yiming Li, who now directs a branch of the research division at the school that didn't exist when he was a graduate student at the Oral Health Research Institute just a few years ago.

A personal computer is the only sign of electronic technology in Dr. Li's new faculty office, which is one of five rooms composing the Cell Culture Laboratory's new facility on the fourth floor of the dental school. Within a few steps of his office door, however, is an impressive array of instruments and equipment bearing such intriguing names as electrophoresis system, osmometer, Coulter counter and channelyzer, centrifuge system, biological safety cabinet, spectrophotometer and orbit shaker. Also, in an unobtrusive corner sits a tank of liquid nitrogen containing the laboratory's mainstay—millions of cells. One by one, those cells are helping researchers reduce the number of animals and humans needed as subjects for research projects.

Dr. Li is pleased that such a laboratory and all of its services are readily available to today's dental researchers. When he had wanted in the mid-'80s to study genetic toxicity of fluoride at the cellular level—a project that led to his PhD degree in dental science in 1987—Dr. Li had had to work in cell culture facilities in the IU School of Medicine's department of genetics. "Although cell biology studies were common in medical schools by that time, the techniques were relatively new in dentistry," says Dr. Li, who had gained some experience in cell culture work from his previous position on the faculty of Shanghai Second Medical University in the People's Republic of China. "I was probably the first person at the IU dental school who needed cell culture technology to complete a dissertation."

He may have been the first, but Dr. George K. Stookey, OHRI director and chair of Dr. Li's research committee, knew that the time had come when many more cell culture researchers would soon follow. "Dr. Stookey recognized the usefulness of having a cell culture facility within the dental school," says Dr. Li. When Dr. Stookey was appointed IUSD's associate dean for research in 1987, he made plans to create one.

During the next two years, when Dr. Li was an IU postdoctoral research fellow, he was asked by Dr. Stookey to draw on his background to help establish a cell laboratory for the Institute. By 1989 the laboratory was ready—even though a permanent facility wasn't. Dr. Li joined IUSD's full-time faculty as an assistant scientist at the Institute that year, and Dr. Stookey appointed him to direct the Cell Culture Laboratory.

The tiny laboratory went into operation in cramped, temporary quarters in the Oral Health Research Institute. Timothy W. Noblitt and Kenneth R. Stookey were hired as full-time technicians. The group then moved to yet another temporary facility, this time in rooms in the dental school's original basement, and remained there until the new facility was ready to move into in April of this year.

A distinctive feature of the laboratory is that it has been designed primarily by cell culture researchers specifically for cell culture work.

The laboratory is housed in what many alumni remember as the school's television studio, which closed in the mid-'80s.

A distinctive feature of the laboratory is that it has been designed primarily by cell culture researchers specifically for cell culture work. About 1,000 square feet in size, it has just about the same amount of space as it did in the dental school basement. "The remarkable difference is how the space is used," emphasizes Dr. Li, who worked on the blueprints with

Mr. Noblitt and Mr. Stookey (who has since left to pursue graduate school). "We also designed with expansion and flexibility in mind. We have room to grow for several years."

Double-deck benchtops, hide-a-way writing counters and ample storage compartments provide maximum use of available space and stress safety measures. In addition to Dr. Li's personal office, there are two large laboratories (one exclusively for cell culture work and another primarily for biochemical work and animal studies), a darkroom, and a room for Mr. Noblitt that also accommodates the lab's most recent acquisition, a \$150,000 state-of-the-art laser scanning confocal microscope. The scope, which is capable of evaluating living materials below their surface structures, is expected to transform much of the methodology currently applied in many areas of dental research. Mr. Noblitt, who was promoted to research technologist last year, is designated as key operator of the new scope.

During the past year a new autoclave and fume hood, an automatic programmable electrophoresis system (used to check the proteins of cells), and an osmometer (use to gauge the solute content in a solvent for cell cultures) were added to the lab's outstanding collection of equipment. The laboratory received words of praise from Dr. Bruce Baum, director of the National Institute of Dental Research, when he toured the facility in the summer.

Dr. Li is proud of the unique dual role the Cell Culture Laboratory plays. "Those of us employed in the laboratory have our own innovative research projects to explore as primary investigators," he says. "Since 1989 we have obtained five NIDR grants. At the same time, we use established methodology to undertake contract testing for industry and to assist faculty and student researchers who request our services, so we consider ourselves a service organization as well. We've done collaborative projects with the American Dental Association as

Cell biology researchers Timothy W. Noblitt (left) and Dr. Yiming Li in the new Cell Culture Laboratory on the fourth floor of the dental school

well as the International Work Force of Biologic Materials, an international group of scientists from Japan, Germany, England, France, and the U.S. Last year alone we completed an NIDR-supported study of the genetic toxicity of glutaraldehyde, a common agent found in disinfectants and in some restorative dental materials, and we were involved with about two dozen industrial contracts."

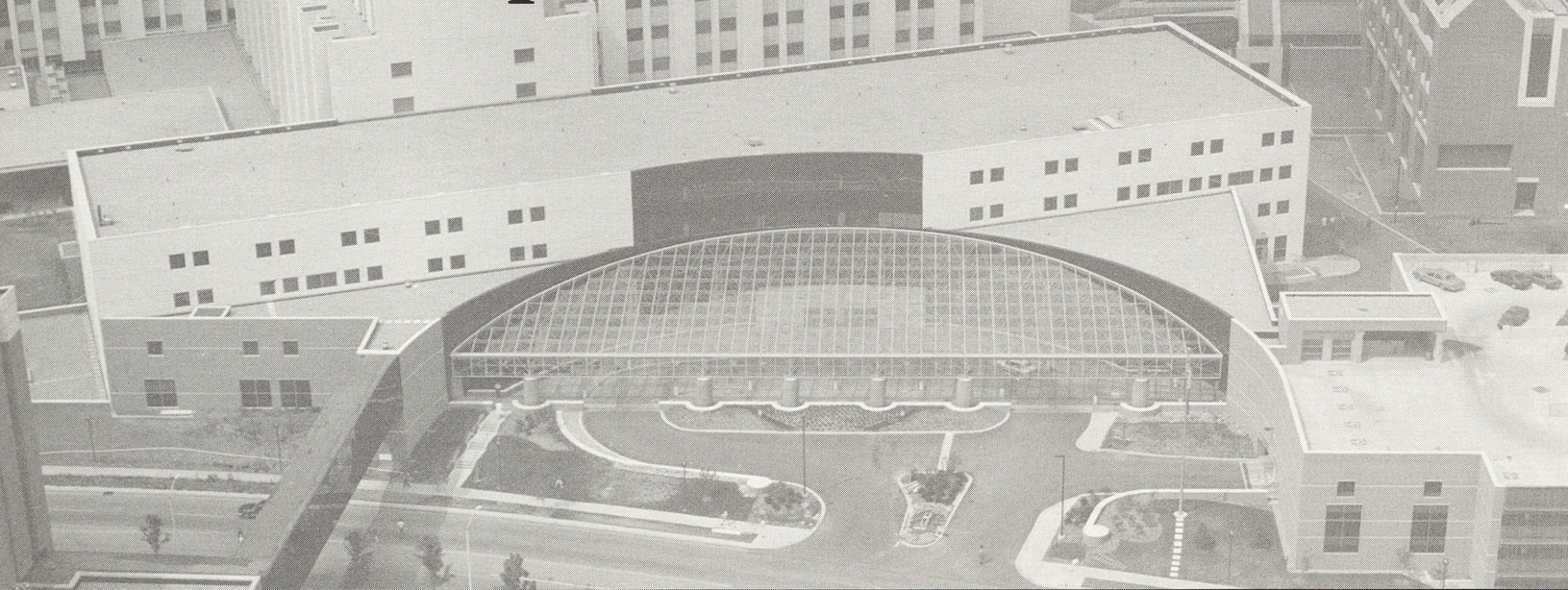
The cell culture researchers are also participating in the Oral Health Research Institute's five-year fluoride program project (described on page 26); they will be collecting lymphocytes from the blood of persons who have been exposed to high levels of fluoride and examining those cells for chromosomal changes.

The laboratory can accommodate up to six researchers at a time. The new facility was a primary research site last summer for several IUSD graduate students and eight NIH-funded students (six from IU's predoctoral program, two from local high schools). "We are a core research facility not only for dental school faculty and students, but also for researchers participating in the IUPUI Biomechanics and Biomaterials Research Center," says Dr. Li, who recently accepted a joint appointment as adjunct assistant professor of pharmacology and toxicology, IU School of Medicine.

"Clearly, molecular and cell biology is becoming increasingly more important to understanding research problems in dentistry," he continues. "We are equally committed to our goal of greatly reducing the use of animals in research. The IU dental school will soon have a molecular biology laboratory and another for dental imaging. The collaborative opportunities between our divisions are enormous. I feel fortunate to be part of a research program that is on the verge of great expansion."

29

Oral and Maxillofacial Surgery Relocates to University Hospital & Outpatient Center



After decades of occupying rooms on the second floor of Long Hospital, the dental school's hospital-based oral and maxillofacial residency program moved in May into a beautiful new facility at the Indiana University Medical Center that offers a multitude of outpatient testing, treatment, and therapy services.

The Outpatient Center, a four-floor, 980,000-square-foot facility built onto the east side of University Hospital, comprises more than two dozen diagnostic and therapeutic services, including those offered by an Alzheimer's center, a pain clinic, and a center that addresses women's health problems. The move conveniently places the oral and maxillofacial surgeons close to other health care professionals they commonly work with such as otolaryngologists and speech therapists.

A visitor walking into the suite of rooms assigned to oral and maxillofacial surgery on the top floor of the Center would be apt to describe the area as bright, airy, comfortable, and modern.

Dr. Charles L. Nelson, IU's chair of oral and maxillofacial surgery, also uses those words to describe the well appointed facility, which is primarily decorated in a dusty rose color. (The staff wears mauve-colored scrubs.) Surgery's neighboring departments are dermatology, audiology, head and neck surgery, psychiatry, ophthalmology, homecare (home infusion and respiratory therapies), pediatric metabolism and genetics, and nutrition and dietetics.

"We are pleased with our new facility, and proud of it," Dr. Nelson says. He points out several improvements over the program's former quarters at Long Hospital: highly efficient use of space, greater privacy for patient care, the addition of a

postoperative recovery room for patients, and office space (complete with computers) for the eight residents who currently are enrolled in the four-year training program. The division also has four operatories (compared to three at Long); each of the rooms is completely furnished in new equipment and has its own set of patient monitors, including an electrocardiogram, pulse oximeter, and automatic blood pressure cuff.

In addition to offering a full scope of surgical treatments, the hospital-based residents are involved in the care of a variety of patients with various medical problems not ordinarily encountered in the predoctoral surgery clinic, which is housed at the dental school. "We see a number of patients in collaboration with plastic surgeons," Dr. Nelson explains. "We also advise and treat patients—organ transplant recipients, for example—whose treatment puts them at risk for oral infection."

Long Hospital was the site of IUSD's postdoctoral surgery program for several decades (another program, under the direction of Dr. Larry L. Graham, continues to be located at Wishard Memorial Hospital and Regenstrief Center).

Until the mid-'70s Dr. Charles E. Hutton, former chair of oral and maxillofacial surgery, managed the hospital program in the outpatient wing at Long. "His entire program, including three operating chairs, a radiograph unit, reception desk, instrument 'room,' and private offices were all located in one

room," Dr. Nelson recalls. "In 1975 the program moved into five rooms on the second floor, and that's where it stayed until the move this summer." A 1979 graduate of Dr. Hutton's resident training program, Dr. Nelson joined IU's faculty in 1982 and was appointed chair a few months after Dr. Hutton retired in 1990.

Although Long Hospital is closer to the dental school than the Outpatient Center, Dr. Nelson (who shuffles routinely between his hospital and dental school programs) has happily traded the two-minute walk from Long for the opportunity to move the program into the contemporary new facility. He won't miss Long's painted cement block walls, steam radiators, and noisy window air conditioners. "I had to turn the air conditioner off so I could hear to talk on my telephone," Dr. Nelson notes with a laugh.

Shortly before the move to the Outpatient Center, Jennifer L. Gibson was appointed as the first administrative assistant for the department. Other staff members are clinic supervisor Tracy L. Evans, dental assistants Rita J. Snoddy and Heather R. Henson, secretary Sonya M. Bodeis, and receptionist Sherry C. Hancock.

A refurbishing of the dental school's predoctoral surgery clinic also was completed last year. The department's 10

dental chairs—all nearly two decades old—were replaced with new units and track lighting at a total cost of about \$35,000. New cabinets were installed in the clinic, increasing storage space as well as creating a work surface for instrument preparation and supplies. Improvements to the area were designed and coordinated by predoctoral clinical director Dr. D. Chester Swimley.

The surgery department heads into the 1992-93 academic year well prepared to provide a full range of services to its patients in facilities that are now among the finest in the country. The school-based program schedules more than 6,000 patient visits annually. The hospital-based program had been scheduling more than 3,000 appointments each year, but an increase in this number is anticipated since the new facility has an additional operator.

Fourth-year oral and maxillofacial resident Dr. R. Todd Bergman (left) and clinic supervisor Tracy L. Evans in one of the residency program's four new operatories at the Outpatient Center





Senior research assistant Linda E. Gfell in the mucosal immunology laboratory

To a healthy tooth, it's clearly the enemy.

But to a researcher whose interests lie in mucosal immunology, the *Streptococcus mutans* antigen is much more friend than foe.

"*Streptococcus mutans* is helpful to our research because it's a very well defined pathogen with well defined virulence properties," says Dr. Richard L. Gregory, an associate professor of oral microbiology who joined the IU School of Dentistry faculty in 1991. "Also, *Strep mutans* exists only in the mouth, and the mouth is an excellent model for studying the mucosal immune system because it's easy to work in and saliva samples are easy to obtain."

Holding a unique position as the IU dental school's first mucosal immunologist, Dr. Gregory does not have a lot of company in his field. (In fact, he is not aware of another mucosal immunologist in the state.)

Dr. Gregory studies the human immune system by searching for clues on the body's various mucosal surfaces—the "neighborhoods" where the immune system resides. Specifically, he is interested in the secretory immune response to the toxins, foreign proteins, and bacteria that stimulate production of antibodies. He has been assigned a laboratory at the Oral Health Research Institute in which to conduct his work.

Although the salivary glands are a convenient and frequently chosen research site, Dr. Gregory also is trained to explore the immune responses of the lacrimal and mammary

glands and the gastrointestinal, respiratory, and genitourinary tracts. "A tremendous area of the body is covered by mucosal surfaces," Dr. Gregory says. "It's a surface much greater than the surface area of the skin, for example. And, if you think about it, the great majority of diseases are encountered through mucosal surfaces."

The *Streptococcus mutans* antigen has been a valuable agent in Dr. Gregory's research for a decade. He is a graduate of Southern Illinois University, having earned a PhD degree in microbiology and immunology in 1982. After finishing a postgraduate training program in mucosal immunology at the University of Alabama in 1984, he joined the oral biology faculty at Emory University School of Postgraduate Dentistry.

When Dr. Gregory transferred to IU (after the closure of Emory's School of Postgraduate Dentistry), two substantial research grants transferred with him.

One grant, funded by the National Institute of Dental Research, looks at the functional role of secretory Immunoglobulin A antibodies to *Streptococcus mutans*. Funded originally from 1984 to 1988 for \$107,500, the grant was renewed for 1988-1992 for about \$270,000. After the project came to IU, Dr. Christopher V. Hughes, assistant professor of pediatric dentistry and of oral microbiology, became Dr. Gregory's co-investigator.

Results from Dr. Gregory's previous work suggest that some people are naturally immune to dental caries. "Data accumulated over many years have shown that people who are

RESEARCH PROGRAM EXPANDS TO INCLUDE MUCOSAL IMMUNOLOGY

free of, or resistant to, dental caries have higher levels of antibodies in their saliva and blood to *Strep mutans* than do people who are caries prone—regardless of the fluoride factor,” Dr. Gregory explains.

His second grant, funded by the Smokeless Tobacco Research Council, New York, examines the effects of smokeless tobacco use on secretory immune factors and saliva. The project was renewed for 1990-92 after an initial three-year period; current funding is about \$330,000. Co-investigators are Dr. Barry P. Katz, associate professor of medicine (School of Medicine) and of preventive and community dentistry (School of Dentistry), and Dr. Hughes.

In January 1992, Dr. Gregory was awarded an additional three-year grant from the Smokeless Tobacco Research Council entitled “Regulation of Secretion of Immune Factors by Epithelial Cells”; funding is about \$230,000.

Past research with smokeless tobacco has yielded some unforeseen results, laying the groundwork for what promises to be an intriguing area for researchers. In a study comparing the saliva of smokeless tobacco users and non-users, for example, the saliva of the tobacco users was found to contain much higher levels of Immunoglobulin A—the antibody that helps establish an immune response to caries-promoting *Streptococcus mutans*—than the saliva of non-users.

Dr. Gregory is hopeful that further study of the human immune system will one day make it possible for dentists to identify individuals who are at high risk for dental caries while they are in the earliest stages of life. “The dentist could then implement preventive procedures such as sealants or additional fluoride treatments to protect the child’s teeth,” he said.

Dr. Gregory also sees this type of research data as valuable to the ongoing search for a vaccine against dental caries. During his postgraduate training at the University of Alabama, he was a member of the research team that developed an effective oral vaccine against dental caries in 16 research patients. The research has been the subject of much interest and speculation within the dental profession and has spawned countless reports published worldwide. (While Dr. Gregory is excited

about having played a part in this ground-breaking project, he is well aware that it was a pioneering effort and has grown weary of responding to mass media reports that give the general public the impression a dental vaccine is “just around the corner.”)

For now, Dr. Gregory prefers to concentrate on the progress of his three current grants. He looks forward to contributing in a meaningful way to a previously untapped area of research at IUSD.

“A prime focus in my career is to try to teach people about the mucosal immune system,” he says. “It’s an area that’s been long ignored, particularly in dental schools. I hope to make contributions as a teacher that will be as valued by the IU dental and medical communities as my contributions to research.”



During an ELISA test (Enzyme-linked Immunosorbent Assay), a multichannel pipette is used to deliver dilutions of human saliva to ELISA plate wells. The test is used to quantitate the levels of salivary IgA antibodies to *Streptococcus mutans*.

Whether your role at the dental school places you behind a desk, beside a dental unit, in front of a laboratory instrument, or on the receiving end of dental treatment, faculty and staff associated with the division of Human Health and Safety regard your well being as their highest priority.

Long recognized as a national authority in infection control in dentistry, the IU dental school broadened its infection control operational base on July 1, 1991, by formally establishing a division of Human Health and Safety. Directed by Professor Charles J. Palenik, the division is a component of the Department of Oral Microbiology, chaired by Dr. Chris H. Miller. Its mission is to standardize and monitor all facets of infection control and hazardous materials management as they apply to activities in the IUSD system. Professor Palenik, who also chairs the school's Infection Control/Hazardous Materials Committee, oversees the new Infection Control Supply Facility. Assisting in this effort are on-site supply coordinator Chris Freeman, sterilization clerk Deborah A. Stewart, and distribution clerk Ora L. Wade.

Human Health and Safety works in conjunction with the school's Central Services Facility (sterilization center) and the Infection Control/Hazardous Materials Committee to ensure that the dental school remains in compliance with the growing number of recommendations, regulations, and laws set forth by the Occupational Safety and Health Administration (OSHA), Centers for Disease Control, Indiana State Department of Health (ISDH), and other governing agencies.

A room on the third floor housing operative dentistry's graduate student clinic and laboratory was remodeled into two rooms in order to place the new division in proximity to the school's central sterilization services. One room serves as the distribution center for the gowns and other infection control supplies and the other continues as the graduate student lab. (The grad clinic was moved to the westside section of the school's main clinic.)

Protection for One and All

New division of Human Health and Safety coordinates infection control effort

The school's clinical cluster system went into effect a few months after Human Health and Safety was organized—a fortunate coinciding of events, according to Professor Palenik. "The clusters have actually enhanced our system," he says. Since students are now grouped by small clusters instead of by large departmental clinics, it is easier for on-site cluster faculty and staff to help evaluate infection control procedures daily and to quickly identify and eliminate problems that arise. "The infection control supply center has reduced the amount of time dental assistants spend with duties such as bagging disposable covers for the clinics," says Professor Palenik. "Our division provides those services for them now, which means the assistants can devote more of their time to patient-related activities."

Several key goals were met by Human Health and Safety during the past academic year, including implementation of the most visible of all policy changes in infection control since the mid-'80s: the addition of disposable gowns to the school's

staple of universal precautionary measures. Brilliantly colored (blue for faculty, yellow for staff and students), the gowns are worn in the clinics by all employees to guard against disease transmission. Clinicians changed into and out of these lightweight paper garments at the rate of about 2,500 per week during 1991-92. They are removed after every patient appointment (and replaced more often if they become visibly soiled with body fluids).

Gowning up for dental appointments was an awkward experience for many practitioners last summer, just as gloving up was a few years ago. But most clinicians today slip into their protective wear swiftly and without much thought; some, such as students in the Class of 1995, take the procedure for granted—they've never practiced dentistry any other way.

Another major accomplishment was the standardization of procedures to assure that all dental handpieces in the IUSD system are steam sterilized after each time they are used. These sterilization procedures fulfill a requirement directed by Indiana's Department of Health in compliance with Indiana Public Law 123-1988.

At a cost of approximately \$150,000, more than 300 high- and low-speed fiberoptic handpieces were added to the school's collection of about 600 handpieces to allow for the extra "down" time instruments spend in the autoclaves. "The school must be prepared for a 10 to 15 percent decrease in the life-span of routinely sterilized handpieces," notes Professor Palenik. Technology is doing its best to stay a step ahead of the various challenges presented by handpiece sterilization. "Our most recently purchased handpieces have lubrication-free ceramic bearings, which helps cut down on sterilization prep time," he says.

In May 1992 the division distributed several newly written or revised health and safety documents to all employees and students as a supplement to their required participation in annual seminars presented as updates on infection control and hazardous materials management. Revised were the school's highly detailed Infection Control Training manual and General Clinical Asepsis Protocol. New documents included Guidelines for the Bloodborne Pathogen-infected Dental Health Care Worker (approved by the IUSD Faculty Council); and an IUSD Exposure Control Plan (developed in accordance with OSHA's standard for occupational exposure to bloodborne pathogens, published in December 1991).

Through the Human Health and Safety division, the dental school is able to conduct an ongoing review of issues related to safety in the practice of dentistry, dental laboratory technology, and other activities associated with IU's dental health care facilities. In addition to supervising the day-to-day progress of IUSD's infection control program, conducting mandatory infection control seminars, and distributing up-to-the-moment revisions to infection control guidelines, the division serves as a chief source of information for individuals—both at the school and in private practice—with questions about infection control and hazardous materials management.

Human Health and Safety provides an efficient, easily monitored means of enabling employees and students to be well informed about, and in a position to comply with, regulations and laws that affect their work or study program within the School of Dentistry.



Dental student Tonya Stewart (left) is assisted by staff member DeAnna Johnson.



Four predoctoral dental students participate in dental school's first official student exchange program

By studying abroad, dental students Caroline Weston and Christopher Edwards were simply following the academic routine at their dental school in Manchester, England.

But dental students Gary Bacon and Mindy Mundy were negotiating uncharted waters for the Indiana University dental school when they traveled to England to spend several weeks as exchange students at Turner Dental School, University Dental Hospital of Manchester.

IUSD's administration is hopeful that Gary's and Mindy's successful overseas study program will be only the first of many exchanges to take place between dental students at Indiana University and other institutions throughout the world. In turn, the school looks forward to further enriching IU's dental program with the presence of bright young scholars such as Caroline and Chris from training programs in other nations.

The exchange was planned by IU's Dean H. William Gilmore and N.H.F. Wilson, a professor of conservative dentistry in the Department of Restorative Dentistry at Turner, during Professor Wilson's first visit to IUSD in 1990. The British students arrived at IU in the fall of '91 to begin their 10-week program.

Caroline, at 23 years of age, and Chris, at 22, were about the age of first-year American dental students at the time of their visit, although they actually were finishing their four-and-a-half year education at Turner with the IU trip; a month after returning home they collected their Bachelor of Dental Surgery degrees.

British dental students Christopher Edwards and Caroline Weston, shown in IU's Comprehensive Care Clinic, both entered vocational training "schemes" after they graduated in December 1991 (Chris in Manchester, Caroline in Yorkshire). Schemes are government-run, salaried graduate education programs that place new dentists in the offices of other general practitioners with one day off each week to pursue university classes.

By studying at Indiana, the British students were fulfilling a requirement for graduation. Many of their 53 classmates also studied abroad, although the usual length of Turner's mandatory off-campus "elective" is four weeks.

In addition to diagnosing and treating patients at IU, Chris and Caroline also were required by Turner Dental School to undertake research projects. Chris said that his proposal was instrumental in his being chosen to come to IU. "Professor Wilson was quite keen on the project," said Chris, who surveyed teenagers in Manchester in regard to their awareness of dental terminology and then conducted a similar survey at North Central High School in Indianapolis.

Caroline's project concerned patient selection prescription criteria for dental radiographs. "In America you have ADA guidelines that identify where and when you should take radiographs, and on what types of patients," Caroline said. "We don't have any such guidelines in Britain. I am interested in finding out if your prescription habits are different from ours because of these guidelines—and I'd like to determine if, in fact, American dentists are aware of the guidelines and follow them." IUSD faculty holding dental degrees contributed to her

survey sample. Both projects were completed after the students returned to England and presented to the Turner faculty.

While they were here each student emphasized similarities of the two dental programs instead of differences. "Infection control is basically the same, although we don't wear paper gowns and we don't use plastic to cover everything," said Caroline. "The main difference is the extent of use of the rubber dam, which is limited at home."

"To come over here and cut amalgams with a rubber dam on the patient was an experience," Chris agreed. "But it was a good experience. Practitioners at home don't like to use them because they say it takes too long, but that's a fallacy. Their use is very straightforward. Some of the work I've done here would have taken twice as long without the rubber dam. I'll definitely try using the dams in practice next year."

Many more dental nurses (assistants) are available to work chairside at Turner and the school is also less departmentalized than IU's, the two reported. "You have departments for crown and bridge, endo, operative," said Caroline, "whereas at home they and even part of prosthetics are all under the Department of Restorative Dentistry."

"It was delightful and very enlightening having Chris and Caroline with us," said Dr. Hala Henderson, IU's associate dean for student affairs. "They gave us an opportunity to deal with students from a different perspective. They are young, but also very mature. And I think they were genuinely excited about all of the many extra activities they were asked to par-

ticipate in, which included everything from the Fall Dental Conference to a meeting of the Indianapolis District Dental Society."

Chris and Caroline took cultural differences in stride, although they were at first surprised when patients touched them on the arm during dental appointments. "It wasn't all that disconcerting," said Chris, "but very unusual—at home you just don't breach someone's personal space."

One cultural oddity they weren't prepared for was how activity in Indiana revolves around the automobile, a component they found only slightly less indispensable to life than oxygen. "It was easier to fly to San Francisco than it was to get to Brown County," Chris lamented.

The visitors were grateful to all of the persons on the IUPUI campus who gave them a lift to go shopping or sightseeing. "Future exchange students should be told that an automobile is essential," Caroline recommended.

To be eligible for the program in Manchester, IU's fourth-year students Mindy Mundy (now Mundy-Burgett) and Gary Bacon had completed 80 percent of their clinical graduation requirements and were in the upper one-third of their class academically. Their training session, which began in January and lasted for six weeks, was made possible with support from Miles Laboratories Inc., of Elkhart. Gary described the visit as a "fantastic experience—a great way to cap my dental school career."

The trip offered the Hoosiers an opportunity to treat patients in a nonfluoridated city and to observe the dental profession in a country where dental care is available to all citizens through a national health service (NHS), even though private practices conducted independently of the NHS are also permitted. Both students based their comparison of American and British dentistry on their own experiences seeing patients at the school, conversing with many individuals, and observing several dental practices. They submitted written reports to Dr. Henderson as part of their program requirements.

"The undergraduate students at Turner are exposed to a great deal of clinical oral medicine," noted Gary. "The students learn how to interview patients and how to discuss the patients' various pathologies with ease."

"Some dental professionals agree that even though the NHS system has flaws, at least everyone may be treated," Mindy reported. "No one ever needs to have a tooth extracted due to a restorable carious lesion that they cannot afford to fix. However, there does not seem to be the same incentive for maintaining a healthy dentition as we encounter at home. The public believes that dental care is a right."

"After visiting the dental hospital at Manchester, I feel each type of dental health care delivery system has positive points," Mindy continued in the summary of her report. "I would not like to see the United States result in a national health care system that is full and encompassing, yet I would like to see some government sponsorship of basic need to relieve pain. Reconstruction should be the responsibility of the individual."

In the U.S., we are fortunate to have a population with a high dental IQ and high demands for their own dental health."

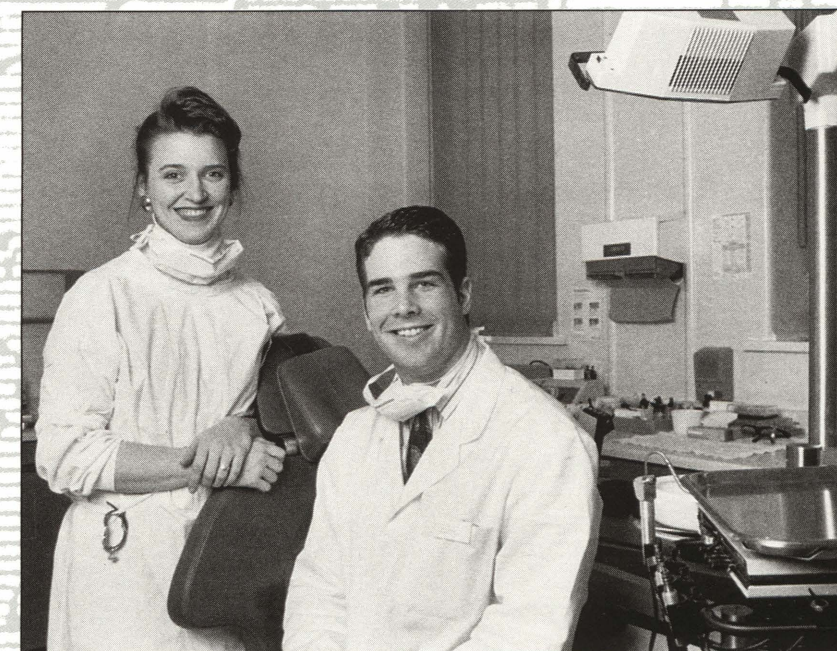
"When comparing the two systems, each has advantages over the other," said Gary. "Some aspects of the British system may not be looked upon favorably by Americans. However, our system has its own faults, as I discovered by observing in Manchester. Overall, both systems work—and work well. The people at Turner allowed me to experience their system without prejudice."

All four exchange students remarked upon the hospitality and good will extended to them by their respective host countries and said that the opportunity for cultural enrichment was instrumental in their decision to participate. All felt that the experience helped them broaden their views of dentistry, but their overriding memories are associated with the many people they met on their overseas adventure.

In short, the students seem to have gained from the trip what administrators at Turner and IU had hoped they would—insight, perspective, professional growth, and a sense of global camaraderie among persons in the dental profession.

On behalf of IU and Turner dental schools, Dean Gilmore and Professor Wilson, respectively, pledged their commitment to an ongoing exchange of knowledge, ideas, and programs by signing an Agreement of Friendship and Cooperation in February 1992 in Chicago. Two more students from Turner have been designated to study at IU during first semester of the 1992-93 academic year.

Mindy Mundy-Burgett and Gary Bacon, shown here at Turner Dental School last year, have since graduated and moved on in their careers. Dr. Mundy-Burgett is enrolled in a one-year general practice residency at the Veterans Administration Hospital, Indianapolis; Dr. Bacon is practicing general dentistry in associateships with Dr. Robert Taylor ('83), Carmel, and the American Family Dental Center.



Personal Contributions to the Annual Report

The following are examples of oral and written communications of IUSD faculty, staff, students, and former students from the past year.

CARL J. ANDRES

Associate Professor, Prosthodontics

Orbital prosthesis following temporal muscle or forehead flap reconstruction: use of optics and illusions (with A. Newton, J. Shore, J. Schriener) *J Prosthetic Dentistry* 67:390, 1992

C.E. Course "Clinical Applications of Osseointegrated Implants" (with David Avery) Universidad Autonoma del Estado de Mexico, Toluca, March

Table Clinic and Essay Program "Computer Assisted Design of Maxillofacial Prostheses" (with Donald R. Schmitt, clinical assistant professor, prosthodontics) Academy of Prosthodontics, Lexington, Kentucky, May

GORDON R. ARBUCKLE

Assistant Professor, Orthodontics

Osseointegrated implants and orthodontics (with Charles Nelson, W. Eugene Roberts) *Oral and Maxillofacial Clinics of North America* 3:903, 1991

C.E. Program "Biomechanics/Typodont Course: Indiana Segmented Arch Appliance" (with co-presenter William Hohlt) Matsumoto Dental College, Shiojiri, Japan, August

DONALD E. ARENS

Associate Professor, Endodontics

Financial independence: the ultimate goal. *MONITOR* (Business and Clinical Management for Dentistry) *McKenzie Management* 5(4):2, 1991

Lecture/surgical demonstration "Technologic Endodontics" Chicago Midwinter Meeting, February

Lecture/surgical demonstration "Seminar of Endodontic Surgery: Theory and Practical Demonstration" 5th European Convention of Dentists, Latina, Italy, March

DAVID R. AVERY

Professor, Pediatric Dentistry

Lecture "Fragment Restorations" Bloomington (Indiana) Dental Society, Bloomington, July

C.E. Program "Pulp Therapy and Trauma in Primary and Young Permanent Teeth" Universidad Autonoma del Estado de Mexico, Toluca, March

VANESSA BATEMAN

Laboratory Assistant, Oral Microbiology

Effects of dental restorations on salivary and serum immunoglobulins: mercury levels (with primary investigator Richard Gregory and Linda Gfell, Shing-Zeng Dung, Ralph McClure, H. Malmstrom) Abstracts of the Indiana Branch of the American Society for Microbiology, April 1992

BRADLEY B. BEISWANGER

Professor, Preventive and Community Dentistry

Clinical effects of a 0.12% chlorhexidine rinse as an adjunct to scaling and root planing (with Mark Mallatt; Richard D. Jackson, research associate, Oral Health Research Institute {OHRI}; Melissa S. Mau, associate director, OHRI clinical research; C. Farah; M. Bosma; B. Bollmer; E. Brady Hancock) *J Clinical Dentistry* 3(2):33, 1992

WILLIAM BORMAN

Assistant Professor, Dental Diagnostic Sciences

Steering patients in the right direction (with Paul Zitterbart) *New York State Dental J* 57(8):32, 1991

Table Clinic "Helpful Hints in Geriatrics" Indiana Dental Association, Indianapolis, April

STEVEN L. BRICKER

Professor, Dental Diagnostic Sciences

C.E. Program "Radiation Biology" (with co-presenters Gail Williamson; Dale Miles, Margot Van Dis, Thomas Razmus) Midwest Radiology Instructors Course, Indianapolis, June

CHARLES M. BROWN

(MSD Periodontics '89)

Microbiological comparison of young adults based on relative amounts of subgingival calculus (with E. Brady Hancock; Timothy O'Leary; Chris Miller; Margie A. Sheldrake, research associate, oral microbiology) *J Periodontology* 62(10):591, 1991

DAVID T. BROWN

Associate Professor, Prosthodontics

Effect of sucralate on the growth of cariogenic streptococci (with Chris Miller, D. Maupin) *J Prosthetic Dentistry* 66:256, 1991

TIMOTHY J. CARLSON

Associate Professor, Operative Dentistry

Clinical Demonstrations and Lectures "Preparation and Restoration with Amalgams," "Preparation and Restoration with Resins," "Clinical Use of Glass Ionomer Cements," "Repair of Castings," "Restoration of Endodontically Treated Teeth" Melvin R. Lund Seminar, Intercontinental University, Mexico City, July

DAVID G. CHARLTON

(MSD Dental Materials '91)

Effect of age of sample on the shear bond strength of dentin bonding agents to dentin (with B. Keith Moore) *Journal Indiana Dental Association (JIDA)* 70(5):23, 1991

Direct surface pH determinations of setting cements (with B. Keith Moore; Marjorie L. Swartz, professor emerita, dental materials) *Operative Dentistry* 16:231, 1991

Incorporation of adhesive liners in amalgam: effect on compressive strength and creep (with David Murchison, former U.S. Air Force fellow, dental materials; B. Keith Moore) *American J Dentistry* 4:184, 1991

Repairability of type II glass ionomer cements (with David Murchison, B. Keith Moore) *J Dentistry* 19:249, 1991

In vitro evaluation of two microleakage detection tests (with B. Keith Moore) *J Dentistry* 20:55, 1992

ARDEN G. CHRISTEN

Professor, Preventive and Community Dentistry

A smoking cessation program for the dental office: the time is right! *Bulletin Eighth District Dental Society of the State of New York* 25(3):13, 1991

Transdermal nicotine for smoking cessation: six-month results from two multicenter controlled clinical trials (Contributed to article as member of Transdermal Nicotine Study Group. Other IU researchers were Bradley Beiswanger; Melissa Mau; Cheryl Walker, dental study assistant, OHRI) *J American Medical Association* 266(22):3133, 1991

Interview Writing: A professional and personal adventure appearing in (IU) *Facultygram*, Issue 10, April 1992

Lecture "Smokeless Tobacco Usage: A Widespread, Addictive and Health-Damaging Activity" American Society of Addiction Medicine, Fourth National Conference on Nicotine Dependence, Raleigh, North Carolina, September

C.E. Program "Helping Your Patients Decrease Tobacco Use" (with R. Mecklenburg) National Cancer Institute training program for dental professionals, Baylor College of Dentistry, Dallas, November

PATRICK T. CLEARY
(MSD Endodontics '86)

Histologic examination of paraformaldehyde-exposed gutta-percha implanted in rats (with Carl Newton; Scott W. Morrison {DDS '79, MSD Endodontics '88}; Abdel H. Kafrawy, professor, dental diagnostic sciences) *J of Endodontics* 18(2):63, 1992

MICHAEL A. COCHRAN
Professor, Operative Dentistry

Presentation "Color Modification in the Vital Dentition" Academy of Operative Dentistry, Chicago, February

Presentation "Current Concepts in Cosmetic Dentistry and Tooth Colored Restoratives" Grupo de Estudios Dentales U.S.C. de Mexico AC, Ixtapan de la Sal, Mexico, May

VAL S. COX
(MSD Endodontics '90)

Radiographic interpretation of endodontic file length (with Cecil E. Brown, Jr., associate professor, endodontics; Steven Bricker; Carl Newton) *Oral Surgery/Oral Medicine/Oral Pathology* 72(3):340, 1991

SUSAN M. CRUM
Director, Publications

Facing problems head on. *Indiana Alumni Magazine* 54(2):10, 1991

Researchers explore benefits of gum chewing. *IUPUI Sagamore newspaper* 21(20):3, 1992

JEFFREY A. DEAN
Assistant Professor, Pediatric Dentistry

Nursing caries: the naptime nightmare. *Indianapolis Medical Society Bulletin* 81(5):10, 1992

Table Clinic "Lip Bumper Therapy" American Society of Dentistry for Children, Scottsdale, Arizona, October

Lecture "Pediatric Dentistry Review" Second Annual International Scientific Congress, University of Nicaragua School of Dentistry, Leon, April

SHING-ZENG DUNG
(Graduate Student, Preventive and Community Dentistry)

Role of colostral IgA1 and IgA2 against streptococcus mutans (with primary investigator Richard Gregory and Linda Gfell, Ralph McClure) Abstracts of the Indiana Branch of the American Society for Microbiology, April 1992

ANN J. DUNIPACE
Assistant Scientist, Oral Health Research Institute

Mutagenic potential of toluidine blue evaluated in the Ames test (with Rebecca J. Beaven {DDS '92}; Timothy Noblitt, research technologist, OHRI; Yiming Li; Susan Zunt; George Stookey) *Mutation Research* 279:255, 1992

Absence of sustained effects of acute fluoride exposure on cyclic AMP levels in the adult rat (with Wu Zhang, research technologist, OHRI; George Stookey; D. Allmann) *Annals of Dentistry* 50:19, 1992

PAMELA J. ELLIOTT
Administrative Assistant, Clinical Affairs

Panel participant "Career Day" sponsored by Indiana-Purdue Alumni Association and Black Collegiate Caucus Student Organization, Fort Wayne, February

LAWRENCE P. GARETTO
Assistant Professor, Orthodontics (Dentistry) and Physiology and Biophysics (Medicine)

5-Bromo-2'-Deoxyuridine as a nonradioactive immunohistochemical label for DNA synthesis in osteoblast precursor cells (with Caroline Jennermann, senior dental technician, orthodontics; W. Eugene Roberts) *ASGSB (American Society for Gravitation and Space Biology) Bulletin* 5(1):34, 1991

Presentation "Finite Element Model of Bone Cell Kinetics" (with Thomas Katona) Symposium on Bone Strength and Osteoporosis,

23rd International Sun Valley Workshop on Hard Tissue Biology, Sun Valley, Idaho, August

Presentation "Systems Physiological Response to Weightlessness" Great Lakes Association of Orthodontists, Indianapolis, November

LAFORREST D. GARNER
Professor, Orthodontics

Round Table Presentation "Orthodontic, Plastic Surgery, Oral Surgery, and Prosthetic Management of Craniofacial Deformity (Crouzon Syndrome)" American Association of Orthodontists, St. Louis, May

Paper "Orthodontics and Its Impact on Rehabilitation of the Cleft Lip/Palate Patient" Porter Memorial Hospital Group, Michigan City, June

LINDA E. GFELL
Senior Research Assistant, Oral Microbiology

Longitudinal study of salivary IgA and serum IgG antibodies to Streptococcus mutans and caries activity (with primary investigator Richard Gregory and Shing-Zeng Dung, Ralph McClure, L. Hobbs, H. Malmstrom) Abstracts of the Indiana Branch of the American Society for Microbiology, April 1992

H. WILLIAM GILMORE
Professor, Operative Dentistry

Presentation "Dental School Management and Administration" Universidad Autonoma del Estado de Mexico, Toluca, March

Presentation "Current Concepts in General Practice" American Dental Society of Europe, Villa Moura, Portugal, June

LAWRENCE I. GOLDBLATT
Professor, Oral Pathology

Introduction *Proceedings of the Omicron Kappa Upsilon Supreme Chapter Special Symposium* featuring keynote speaker GERALD L. BEPKO, IU VICE PRESIDENT AND CHANCELLOR (INDIANAPOLIS): *The future of promotion and tenure for dental school faculty—a view from the university.* *J Dental Education* 55(10):680, 1991

Presidential Address "OKU of the Future" OKU Supreme Chapter, Boston, March

Address "What's So Special About OKU?" Theta Theta Chapter, Indianapolis, April

JEFFERY L. GORE
Instructor, Dental Diagnostic Sciences

Lecture "Current Bleaching Techniques for Vital Teeth" Eastern Indiana Study Club, Richmond, September

JOHN C. GORMAN and J. COURTNEY GORMAN
Assistant Professors, Orthodontics

C.E. Course "Lingual Appliances, Typodont Workshop" (with Gordon Arbuckle), Indianapolis, March

RICHARD L. GREGORY
Associate Professor, Oral Microbiology

Effect of smokeless tobacco use in humans on mucosal immune factors (with J. Kindel, L. Hobbs, H. Malmstrom) *Archives of Oral Biology* 36:25, 1991

Comparison of polymeric and monomeric IgA function (with J. Kindel, L. Hobbs) In *Frontiers of Mucosal Immunology*, proceedings of the Sixth International Congress of Mucosal Immunology, Elsevier, Amsterdam (M. Tsuchiya, H. Nagura, T. Hibi, I. Moro, editors) 1:267, 1991

Immunoglobulin—degrading enzymes in localized juvenile periodontitis (with D. Kim, J. Kindel, L. Hobbs, D. Lloyd) *J Periodontology Research* 27:176, 1992

Function of secretory immunoglobulin A antibodies: regulation of a mucosal pathogen. *Clinical Laboratory Science (J American Society for Medical Technology)* 4:146, 1991

Effect of immune bovine milk on Streptococcus mutans in human

dental plaque (with S. Filler, primary author; S. Michalek; J. Katz; J. McGhee) Archives of Oral Biology 36:41, 1991

Immunobiological effects of smokeless tobacco: secretory IgA structure/function (with J. Kindle, H. Malmstrom) Abstracts of the Indiana Branch of the American Society for Microbiology, April 1992

Research Paper "Functional Role of Mucosal IgA Antibodies in Mediation of Disease" Department of Microbiology and Immunology, IU School of Medicine, November

Research Paper "Immunological and Biochemical Properties of a Ribosomal Vaccine from a Mucosal Pathogen" Pierre Fabre Medicament International Corporation, Castres, France, June

E. BRADY HANCOCK

Professor, Periodontics

Lecture "Regenerative Approaches to Furcation Management" American Academy of Periodontology, Vancouver, British Columbia, Canada, October

Lectures "Diagnosis, Treatment Planning, and Initial Therapy for the Periodontal Patient," "Overview of Periodontal Surgery for the General Practice," "Current and Future Approaches in Regenerative Periodontal Surgery" Puerto Rico Dental Association, San Juan, January

RONALD K. HARRIS

Professor, Operative Dentistry

Direct gold: practical applications. Phillip J 4:211, 1991

C.E. Course Director "Basic and Advanced Direct Gold Technique" (American Academy of Gold Foil Operators and Academy of Operative Dentistry, co-sponsors); presented by IUSD operative dentistry faculty, Indianapolis, June

STEVEN P. HAUG

Assistant Professor, Prosthodontics

Positional accuracy of four die tray systems (with D. Richardson, primary author; R. Sanchez; P. Baker) J Prosthetic Dentistry 66(1):39, 1991

Fabrication of a facial orthotic for protection of a fractured nose (with R. Haug) J Oral and Maxillofacial Surgery 50(7):765, 1992

DAVID K. HENNON

Professor, Pediatric Dentistry and Orthodontics

Commissure stabilization appliance in facial reanimation surgery (with B. Eppley, primary author; A. Michael Sadove, associate professor, plastic surgery {Medicine} and oral and maxillofacial surgery {Dentistry}; R. Zuker) Plastic and Reconstructive Surgery 89:1152, 1992

C.E. Lecture Series "Guiding the Developing Dentition," "Hypnosis in Dentistry," "Early Dental Orthopedic Treatment of Cleft Lip/Cleft Palate Infants," and "Fluorides in Dentistry" Second Dental Congress of Latin America, Porto Alegre, Rio De Saul, Brazil, July

C.E. Program "Hypnosis in Dentistry" Pediatric Dentistry Alumni of Loyola University of Chicago, February

MAYNARD K. HINE

Professor Emeritus, Periodontics

Columnist "Hine Sigh" JIDA

WILLIAM F. HOHLT

Assistant Professor, Orthodontics

C.E. Program "Orthodontics for the General Practitioner: Indiana Segmented Arch Appliance" (with co-presenter Gordon Arbuckle) Matsumoto Dental College, Shiojiri, Japan, May

SARA HOOK-SHELTON

Associate Librarian

Small grant helps uncover historic treasures. MIDLINE, No. 48, 1992

4 book reviews, RQ (Reference Quarterly), Fall 1991, Spring 1992

Poster Presentation "History Comes Alive Using Archives" IUSD Fall Dental Conference, September

Presentation "Making History Come Alive, with Archives" Indiana Chapter, Special Libraries Association, Indianapolis, October

ROSE MARIE JONES

Associate Professor, Prosthodontics

Dentin exposure and decay incidence when removable partial denture rest seats are prepared in tooth structure (with Charles J. Goodacre, professor, prosthodontics; David Brown; Carlos Munoz-Viveros, associate professor, prosthodontics; Philip C. Rake, assistant professor, prosthodontics) International J Prosthodontics 5(3):227, 1992

C.E. Program "Cementation of the Resin Bonded Prosthesis" Indianapolis District Dental Society, Indianapolis, February

C.E. Program "Dentin Exposure and Decay in Prepared Rest Seats" American College of Prosthodontics, Midwest Section, Indianapolis, May

LOUISE M. JUDD

Assistant Professor, Dental Hygiene

Reaching out to older adults (with E. Jackson) JIDA 70(4):30, 1991

THOMAS R. KATONA

Assistant Professor, Orthodontics

A mathematical model of mandibular protrusion. J Prosthetic Dentistry 66:699, 1991

Lecture "Engineering Models of Direct Bonded Bracket Testing and Orthodontic Tooth Movement" University of Pennsylvania, May

Poster Presentation "Osteoblast Histogenesis in Rat Periodontal Ligament Following Orthodontic Stimulation: A Combined Approach Using Cell Kinetics and Finite Element Modeling" (with Lawrence Garetto, Nasser Paydar, H. Akay, W. Eugene Roberts) Symposium on Undecalcified Bone Technology, School of Veterinary Medicine, Purdue University, Indianapolis, October

JENNIFER A. KLEIN

Associate Professor, Dental Hygiene (South Bend)

Study Guide and Audiotape "Chemical Dependencies and Dental Hygiene Care" (with Arden Christen; Joan A. Christen, research associate, preventive and community dentistry; James L. McDonald, Jr., professor, preventive and community dentistry; Christianne J. Guba, assistant professor, preventive and community dentistry) for American Dental Hygienists' Association, 1992

MARISA A. LEY

(DDS '93)

Abstract *Potential protective influences of selected dietary minerals upon the mutagenic/carcinogenic potential of benzo(a)pyrene* (with Byron L. Olson, professor, preventive and community dentistry; James McDonald, Timothy Noblitt, Yiming Li) In Midwest Conference on Health Psychology (Topic: Common Household Addictions: Smoking, Drinking, and Eating), p5, 1992

YIMING LI

Assistant Scientist, Oral Heal Research Institute (Dentistry) and Adjunct Assistant Professor, Pharmacology and Toxicology (Medicine)

Lecture "Safety of Tooth Whitening" Three-River Dental Conference, Dental Society of West Pennsylvania, Pittsburgh, November

AMMAR C. LOULY

Assistant Professor, Prosthodontics

Tensile strength of preceramic solder joints formed using an infrared heat source (with Assad Mora {MSD Complete Denture '78, DDS '79}, B. Keith Moore, Carl Andres, Charles Goodacre) International J Prosthodontics 4:425, 1991

Paper "Infrared soldering in fixed prosthodontics" Midwest Academy of Prosthodontics, Indianapolis, September

MELVIN R. LUND
Professor, Operative Dentistry

Clinical Demonstrations/Lectures "Amalgam, Resin, and Direct Gold Materials," "Cosmetic Dentistry: Bleaching Porcelain Veneers, Posterior Composites, Tooth-colored Inlays," "Casting Preparation and Cementation" Melvin R. Lund Seminar, Intercontinental University, Mexico City, July

MARK E. MALLATT
Associate Professor, Preventive and Community Dentistry

C.E. Program "Chemotherapeutic Agents in Preventive Dentistry" Missouri Dental Hygienists' Association, Cape Girardeau, Missouri, September

Lecture "Public Law 123 Regarding Universal Precautions and Infectious Waste" Great Lakes Association of Orthodontists, Indianapolis, November

KEVIN J. MALLEY
Assistant Professor, Preventive and Community Dentistry

Accommodations and treatment delivery modifications for the older dental patient (with Paul Zitterbart) JIDA 70(4):10, 1991

DONNELL C. MARLIN
Assistant Professor, Dental Diagnostic Sciences

Lecture "Forensic Dentistry" Kiwanis Club, Indianapolis, March

KURT F. MARTIN
(DDS '93)

How to make two million bucks by joining ASDA. JIDA 70(6):28, 1991

BRUCE A. MATIS
(MSD Operative Dentistry '83)

How finishing affects glass ionomers: Results of a five-year evaluation (with Timothy Carlson; Michael Cochran; the late Ralph Phillips, research professor, dental materials) J American Dental Association 122(8):43, 1991

RALPH McCLURE
Senior Research Technician

Activity of IgA1 protease from streptococcus sanguis grown in different media (with primary investigator Richard Gregory and Linda Gfell, Shing-Zeng Dung) Abstracts of the Indiana Society for Microbiology, April 1992

DALE A. MILES
Associate Professor, Dental Diagnostic Sciences

Imaging inflammatory disorders of the jaw: simple osteitis to generalized osteomyelitis. Oral and Maxillofacial Surgery Clinics North America 4(1):207, 1992

Textbook *Oral and Maxillofacial Radiology—Basic Principles* 1st Edition (with Margot Van Dis, Thomas Razmus) W. B. Saunders Co., Philadelphia, 1992

Presentation "Cerebral Aneurysm Presenting as TMJ Pain" American Academy of Oral and Maxillofacial Radiology, Seattle, October

C.E. Course "Making the Most of Your Image: Panoramic Imaging" Dalhousie University, Halifax, Nova Scotia, Canada, April

CHRIS H. MILLER
Professor, Oral Microbiology (Dentistry) and Microbiology and Immunology (Medicine)

Sterilization beneath rings on dental instruments (with Margie Shel-drake) American J Dentistry 4(6):291, 1991

Sterilization and disinfection: What every dentist needs to know. J American Dental Association 123:46, 1992

Viral hepatitis. California Dental Institute of Continuing Education 40:18, 1992

OSHA final bloodborne pathogens standard. Dental Study Club J of Continuing Education 1:1, 1992

Dental handpiece sterilization. JIDA 71(3):28, 1992

Chapter *Viral Hepatitis: Etiology, Diagnosis, and Implications for Dentistry.* In Perspectives on Diagnosis and Therapeutics of Oral Soft Tissue Infections (James A. Cottone [MS Oral Diagnosis/Oral Medicine '77], G. Guest, J. Littlefield, editors) University of Texas Health Science Center, San Antonio, p30, 1991

Chapter *Sterilization, Disinfection, and Asepsis in Dentistry* (with Charles Palenik) In Disinfection, Sterilization, and Preservation (S. Block, editor), 4th Edition, Lea & Febiger, Philadelphia, p676, 1991

Infection control columnist, RDH (Registered Dental Hygienist), Volumes 11-12, 1991-92: *Combating risk of transmission* (7); *Guarding against HIV* (8); *Protection goes both ways* (9); *CDC updates guidelines* (10); *Faulty procedures often the culprit* (11); *Flash method not for routine use* (12); *Organization provides timely information on infection control* (1); *OSHA issues the final protection standards on bloodborne pathogens* (2); *OSHA exposure control plan requires organized records* (3); *OSHA standard requires some control of staffs' activities* (4); *Employers required to supply workers with protective gear* (5); and *OSHA says hepatitis B vaccine must be offered free to workers* (6)

C.E. Programs "Infection Control Procedures: How to Comply with the Laws" University of Washington School of Dentistry, Spokane and Seattle, January

Speaker "Study of Limitations of Heat Sterilization of High-speed Dental Handpieces" (program abstract by Dr. Miller; Margie Shel-drake; Kathryn L. Neal, supervisor, dental central services) Infection Control Symposium: Influence of Medical Device Design, sponsored by U.S. Food and Drug Administration Center for Devices and Radiological Health, Bethesda, June

B. KEITH MOORE
Professor, Dental Materials

Effect of filler content of light-cured composites on bond strength to bovine dentine (with M. Miyazaki, primary author; Kou Hinoura, former IU visiting scientist, dental materials; H. Onose,) J Dentistry 19:301, 1991

CHARLES L. NELSON
Associate Professor, Oral and Maxillofacial Surgery (Dentistry) and Plastic Surgery (Medicine)

Primary alveolar cleft bone grafting. Oral and Maxillofacial Surgery Clinics of North America 3:599, 1991

Presentation "Management of Pseudoankylosis of the Mandible in Arthrogryposis" Tri-State Craniofacial Anomalies Conference, Lexington, Kentucky, September

Presentation "Primary Alveolar Cleft Bone Grafting" Department of Oral and Maxillofacial Surgery, Ohio State University, Columbus, November

DONALD H. NEWELL
Assistant Professor, Periodontics

Lecture "Role of Root Resective Procedures in the Treatment of Molar Furcation Invasions" American Academy of Periodontology, Vancouver, British Columbia, Canada, October

Lectures "Management of Teeth with Furcation Invasions" and "Esthetics in Periodontal Therapy" U.S. Army and Medical College of Georgia faculty and graduate students, Fort Gordon, Georgia, October

CARL W. NEWTON
Professor, Endodontics

Effects of aging on endodontic treatment. JIDA 70(4):16, 1991

Trauma involving the dentition and the supporting tissue. Current Opinion in Dentistry 2(7):108, 1992

Presentation "Review of Biological Principles and Clinical Techniques of Canal Preparation and Filling" 76th Annual Session of Puerto Rico Dental Association, San Juan, January

Presentation "Management of Large Periapical Lesions" Second Endodontic World Congress, Paris, France, June

SYBIL S. NIEMANN**Assistant Professor, Dental Auxiliary Education**

Poster Presentation "Recruiting and Admissions in Dental Hygiene and Dental Assisting 1991-92" (with Pauline Spencer) IUSD Fall Dental Conference, Indianapolis, September

TIMOTHY J. O'LEARY**Professor Emeritus, Periodontics**

(Posthumous Publication)

Chapter *Splinting Osseointegrated Fixtures to Teeth with Normal Periodontium* (with Roland W. Dykema, professor emeritus, prosthodontics; Abdel Kafrawy) In *Tissue Integration in Oral, Orthopedic and Maxillofacial Reconstruction* (R. Lancy, D. Tolman, editors) Quintessence Publishing Co., Inc., Chicago, p48, 1992

YOSHIKI OSHIDA**Associate Professor, Dental Materials**

Corrosion and biocompatibility of shape memory alloys (with S. Miyazaki) J of Japan Society of Materials and Environment 40:834, 1991

Changes in contact angles as a function of time on some pre-oxidized biomaterials (with R. Sachdeva, S. Miyazaki) J Materials Science: Materials in Medicine 4(3):306, 1992

Microanalytical characterization and surface modification of TiNi orthodontic archwires (with R. Sachdeva, S. Miyazaki) Bio-medical Materials and Engineering 2:51, 1992

CHARLES J. PALENIK**Professor, Oral Microbiology**

Treatment and disposal of contaminated sharps (with Chris Miller) JIDA 70(5):16, 1991

Effectiveness of steam sterilization on the contents of sharps containers (with Shelley D. Riggen, dental research technician, oral microbiology; Lorraine J. Celis {DDS '95}; Margie Sheldrake; Chris Miller) Clinical Preventive Dentistry 14(1):28, 1992

KICHUEL K. PARK**Professor, Preventive and Community Dentistry**

Columnist, J of Korean Dentistry, Volumes 30 and 31, 1991-92: *Preventive dentistry in dental curriculum* (1); *Oral health improvement through preventive dentistry program in U.S.A.* (2); *Preventive dentistry and other dental specialties* (3); *Recent advances in cariostatic mechanisms of fluoride* (4); *Role of prevention in the area of oral surgery, operative dentistry, fixed and removable prosthodontics in the U.S.A.* (5); *New technology and future dentistry* (6); *Current and future perspectives of clinical preventive dentistry* (7); *New focus of dentistry in U.S.A.* (8); *At the time of more need for dental research in developing dental science* (9); *American dentistry for new age, new feeling, and new biology* (10); *Dental practice and new standards established by Occupational Safety and Health Administration in United States* (11); *More dental benefit through preventive dental practice for people* (12).

The qualification and role of auxiliary personnel in preventive dentistry program. J Korean Dentistry Hygienists Association 2(4):22, 1991

RAJ-RAJENDRA A. PATEL**Research Associate, Oral Facial Genetics**

X-linked (recessive) hypomaturation amelogenesis imperfecta: a prosthodontic, genetic and histopathologic report (with Suteera T. Hovijitra, associate professor, prosthodontics; Abdel Kafrawy; David Bixler, professor, oral facial genetics {Dentistry} and medical and molecular genetics {Medicine}) J Prosthetic Dentistry 66:398, 1991

NASSER H. PAYDAR**Adjunct Associate Professor, Orthodontics (Dentistry) and Professor, Mechanical Engineering (Engineering and Technology)**

Abstract *Finite element analysis of the orthodontic response in rat molar periodontium* (with H. Akay, Thomas Katona, W. Eugene Roberts) In *Advances in Bio-engineering* (R. Vanderby, editor)

American Society of Medical Engineering Bio-engineering Division 20:159, 1991

CHIU-KWAN POON**(MS Dental Diagnostic Sciences '91)**

Presurgical tomographic assessment for dental implants. Part 1: Modified imaging technique (with Theodore K. Barss, graduate student, dental diagnostic sciences; Carole A. Murdoch-Kinch, graduate student, preventive and community dentistry; Steven Bricker; Dale Miles; Margot Van Dis) International J Oral and Maxillofacial Implants 7(2):246, 1992

EDMUND L. RAPP**Assistant Professor, Endodontics**

An analysis of success and failure of apicoectomies (with Cecil Brown, Carl Newton) J of Endodontics 17(10):508, 1991

THOMAS F. RAZMUS**Assistant Professor, Dental Diagnostic Sciences**

Guest Editorial *Dental diagnostic sciences and future of dental practice.* J Dental Research 70(9):1307, 1991

Tongue ulcerated by trauma: report of case. J American Dental Association 123(5):82, 1992

C.E. Course "Focus on Panoramic Radiology" (with Steven Bricker, Dale Miles, Margot Van Dis, Gail Williamson) Indianapolis, June

W. EUGENE ROBERTS**Professor, Orthodontics (Dentistry) and Physiology and Biophysics (Medicine); Adjunct Professor, Mechanical Engineering (Engineering and Technology)**

Bone physiology of orthodontics: metabolic and mechanical control mechanisms (with Gordon Arbuckle, Thomas Katona) In proceedings of the Symposium of the German Orthodontic Society, held in Bad Homburg, 1989; published by Urban & Vogel, Munchen, p33, 1991

Bone physiology and metabolism in dental implantology: risk factors for osteoporosis and other metabolic bone diseases (with Kirt Simmons, assistant professor, orthodontics {Dentistry} and adjunct assistant professor, pharmacology and toxicology {Medicine}; Lawrence Garetto; Rolando A. DeCastro, professor, oral anatomy) Implant Dentistry 1(2):11, 1992

Bone physiology: metabolic and mechanical control systems. PCSO (Pacific Coast Society of Orthodontics) Bulletin 63(4):46, 1991

Physiological basis of the bone reaction to dental implants. L'Information Dentaire 73(22):1795, 1991

Bone Physiological Principles Applied to Orthodontics and Dentofacial Orthopedics: Clinical Evaluation and Implant Anchorage (with William Hohlt, Lawrence Garetto, Kirt Simmons) In *Mechanical and Biological Basics in Orthodontic Therapy* (E. Hosl, A. Baldauf, editors) Huthig Buch Verlag GmbH Heidelberg, p21, 1991

Principles of Orthodontic Biomechanics: Metabolic and Mechanical Control Mechanisms (with Lawrence Garetto, Thomas Katona) In *Bone Biodynamics in Orthodontic and Orthopedic Treatment* (D. Carlson, S. Goldstein, editors) University of Michigan Craniofacial Growth Series, University of Michigan Press, 27:189, 1992

Chapter *Endosseous Implants for Rigid Orthodontic Anchorage* (with Lawrence Garetto, Kirt Simmons). In *Modern Practices in Orthodontic and Reconstructive Surgery, Volume 2* (W. Bell, editor) W.B. Saunders Co., Philadelphia, p1230, 1992

Lecture "Bone Metabolism and the Implant Interface" Norway Society of Oral Implantology, Oslo, September

Lecture "Bone Metabolism and Physiology Related to Implantology" Athens International Symposium on Oral Implantology and Biomaterials, Athens, Greece, April

STEVEN F. RODGERS**(Oral and Maxillofacial Surgery Resident)**

Hemifacial microsomia: an assessment of classification systems (with B. Eppley, Charles Nelson, A. Michael Sadove) J Craniofac Surgery 2:114, 1991

BRIAN J. SANDERS**Assistant Professor, Pediatric Dentistry**

Pamphlet *Oral Health and Seizure Medication* (with James Weddell) Parke-Davis Co., November, 1991

JACK E. SCHAAF**Associate Professor, Dental Diagnostic Sciences**

Indiana HIV early intervention program (EIP) dental component (with H. Hess, primary author; R. Igney; John Valentine) JIDA 70(5):10, 1991

Dental Protocol for HIV Early Intervention Program (with John Valentine) Indiana State Board of Health/Midwest AIDS Training and Education Center Publications, 1991

Lecture "Dental Management of the Medically Compromised Patient" Sigma Phi Alpha Dental Hygiene Honor Society's Alumni Conference, Indianapolis, September

Lecture "Teaching Clinical Management of Dental Patients Known to Harbor Infectious Diseases" American Association of Dental Schools (sections on Oral Pathology, Oral Diagnosis, and Oral Medicine) Boston, March

CHARLES E. SMITH**Associate Professor, Preventive and Community Dentistry**

Presentation "Infection Control and Regulatory Compliance" Great Lakes Orthodontic Society, Indianapolis, November

Presentation "Compliance with Indiana Infection Control Rules" Member Dentists, Health Resources, Inc., Evansville, December

PAULINE R. SPENCER**Assistant Professor, Dental Assisting**

Workshop "Dental Materials" Veterans Administration Hospital Dental Clinic, Danville, Illinois, July

RONALD L. STEINBRUNNER**(DDS '92)**

Connective tissue reactions to glass ionomer cements and resin composites (with James C. Setcos {DDS '88}, Abdel Kafrawy) American J Dentistry 4:281, 1991

GEORGE K. STOOKEY**Professor, Preventive and Community Dentistry**

Monograph Role of Dentifrices in the Prevention of Oral Disease. In Proceedings of 3rd World Congress on Preventive Dentistry, Fukuoka, Japan, held June 1991, p14, 1992

Sample size considerations in designing studies with intraoral models (with Barry P. Katz, associate professor, medicine (Medicine) and preventive and community dentistry (Dentistry); Bradley Beiswanger; Ann Dunipace) J Dental Research 71:819, 1992

Reactor paper concerning patient selection and appliance design in intraoral models. J Dental Research 71:911, 1992

Paper "Review of Benefits Versus Fluorosis Risk of Self-applied Topical Fluorides (Dentifrices, Mouthrinses, and Gels)" Canadian Workshop on Fluorides, Toronto, April

Lecture "Fluoride Safety: Current Observations and Research" International Symposium on Fluoride, sponsored by Brazilian Association for Preventive Dentistry, Rio de Janeiro, May

KENNETH R. STOOKEY**Research Technician, Oral Health Research Institute**

Effect of zinc upon cell attachment and proliferation on periodontally-diseased root surfaces (with Yiming Li, E. Brady Hancock, George Stookey) J Periodontology 62(7):445, 1991

KATHRYN G. STUART**(DDS '83, MSD Endodontics '87)**

Comparative antimicrobial effect of calcium hydroxide (with Chris Miller, Cecil Brown, Carl Newton) Oral Surgery/Oral Medicine/Oral Pathology 72(1):101, 1991

DON-JOHN SUMMERLIN**Assistant Professor, Oral Pathology**

Oral squamous cell carcinoma in Indiana. JIDA 70(6):10, 1991

Histologic effects of smokeless tobacco and alcohol on the pouch mucosa and internal organs of the Syrian hamster (with Ann Dunipace; Rosario H. Potter, professor, oral facial genetics) J Oral Pathology and Medicine 21:105, 1992

Table Clinic "Histologic Effects of Smokeless Tobacco and Alcohol on the Buccal Pouch and Internal Organs of the Syrian Hamster" IUSD Fall Dental Conference, Indianapolis, September

C.E. Program "Oral Manifestations of Dermatologic Diseases" Indiana Academy of General Dentistry, Indianapolis, April

CHARLES E. TOMICH**Professor, Oral Pathology**

C.E. Program Lecture "Oral Pathology in the Edentulous Patient" Midwestern Academy of Prosthodontics, Indianapolis, September

C.E. Program Lecture "Vesiculo-bullous Diseases of the Oral Mucosa" American Society of Oral and Maxillofacial Surgery, Chicago, September

JOHN B. VALENTINE**Instructor, Dental Diagnostic Sciences**

Lecture "Oral Manifestations of HIV Disease" Indiana Association of Osteopaths, Physicians, and Surgeons, Indianapolis, December

Lecture "Dental Treatment and Management of the HIV Positive Patient" First District Dental Society, Evansville, December

MARGOT L. VAN DIS**Associate Professor, Dental Diagnostic Sciences**

Image quality comparisons of X-Omat RP, L and B films (with F.M. Beck) Dentomaxillofacial Radiology 20:132, 1991

Papers "Information Yield from a Hand-held Dental X-ray Prototype Unit" (with Dales Miles; Edwin T. Parks, graduate student, dental diagnostic sciences); and "Knowledge Level of Graduating Dental Students About the Panoramic Image" (with Thomas Razmus, Gail Williamson) American Academy of Oral and Maxillofacial Radiology, Seattle, October

A. GEORGE WAGNER**Professor, Prosthodontics**

Duplicate dentures for use as impression trays. Dentistry Today 11(5):68, 1992

Table Clinics "How to Make Duplicate Dentures for Use as Final Impression Trays" Chicago Dental Society Midwinter Meeting, Chicago, February; and Texas Dental Association Convention, San Antonio, May

JAMES A. WEDDELL**Associate Professor, Pediatric Dentistry**

Lecture Series "Management of the Compromised Child Involving Disorders of the Cardiovascular and Pulmonary Systems," "Leukemia and Bone Marrow Transplant," "Sedation and Analgesia," "Cosmetic Dentistry," "Periodontal Diseases," and "Disabled Dentistry" First Symposium of the International Congress of Dentistry sponsored by the Foundation University of San Martin School of Dentistry, Bogota, Colombia, November

Lecture "Overview of Pediatric Dentistry" 21st Annual Postgraduate Course for Private Practitioners (also course coordinator), Indianapolis, January

MICHELLE L. WITTLER**(DDS '95)**

*Neutralization of IgA1 protease activity from *Streptococcus sanguis* by human lactoferrin and transferrin* (with primary investigator Richard Gregory and Ralph McClure, Linda Gfell, Shing-Zeng Dung) Abstracts of the Indiana Branch of the American Society for Microbiology, April 1992

GAIL F. WILLIAMSON**Assistant Professor, Dental Diagnostic Sciences**

Dental assistants, radiology, and the Indiana law (with Mark Mallatt) JIDA 71(2):22, 1992

C.E. Course "Radiology Update" Cincinnati (Ohio) Dental Hygienists' Association, Raymond Walters College, Cincinnati, October

C.E. Courses "Radiology for Dental Personnel" (with Thomas Razmus) Indianapolis, October and January

GEORGE P. WILLIS**Associate Professor, Operative Dentistry**

Extraction of a fractured and abscessed tooth in a false killer whale [Pseudorca] (with D. Odell, C. Miller) In proceedings of meeting of American Association of Zoo Veterinarians, Calgary, Alberta, Canada, p38, 1991

Speaker "Acid Etching of Dentin and Dentin Bonding Agents" Northside Dental Study Club, Indianapolis, March

Speaker "Exotic Animal Dentistry" Alpha Omega Dental Fraternity, Indianapolis, May

MARK M. WINKLER**Assistant Professor, Dental Materials**

Non-linear in vitro wear of posterior composites with time (with E. Greener, E. Lautenschlager) Dental Materials 7(4):258, 1991

Graduate Dissertation *Wear and Shear Measurements of Dental Resins and Their Statistical Analyses* submitted in partial fulfillment of requirements for the PhD degree, awarded by Northwestern University in December

Normal statistics or not? (with E. Lautenschlager, primary author; P. Monaghan; J. Gilbert) J Biomedical Materials Research 26:829, 1992

KAREN M. YODER**Assistant Professor, Preventive and Community Dentistry (IUPUI) and Dental Auxiliary Education (Fort Wayne)**

Message from "MOM": Oral health is basic to wellness. IUSD Alumni Bulletin 6(3):10, 1992

Caregiver's guide to oral health. JIDA 71(2):8, 1992

Poster presentation "Two Models of Community-based Free Sealant Programs for Low Income Children" American Association of Public Health Dentistry, Seattle, October (published as abstract in J Public Health Dentistry 52(3):192, 1992)

Presentation "Access to Dental Services for Indiana's Indigent Children" 12th Annual Family Health Conference, Indianapolis, October

PAUL A. ZITTERBART**Assistant Professor, Dental Diagnostic Sciences**

Guest editor, theme issue on geriatric dentistry. JIDA 70(4): 1991. Includes *The changing face of dental practice* (editorial) p8

Lecture "Preventive Dental Care for the Geriatric Patient" Indiana Geriatric Education Center Summer Symposium on Geriatrics and Gerontology, Indianapolis, August

Lecture "Fluorides and Their Role in Prevention" Veterans Administration Medical Center, Danville, Illinois, June

SUSAN L. ZUNT**Associate Professor, Oral Pathology**

Guest editor, theme issue on oral cancer. JIDA 70(6): 1991. Includes *The value of histologic diagnosis* (editorial) p5; and *Mouthwash and oral cancer* (with Bradley Beiswanger, Sybil Niemann) p16

Table Clinic "Topical Cyclosporine in the Treatment of Lichen Planus" IUSD Fall Dental Conference, Indianapolis, September

Presentation "Oral Manifestation of Viral Diseases" Academy of General Dentistry, Indianapolis, April

Diplomate**JEFFREY A. DEAN**

American Board of Pediatric Dentistry

New Presidents/Directors**LEHMAN D. ADAMS, JR.**

President, Board of Trustees
Citizen's Gas and Coke Utility

STEVEN L. BRICKER

President
American Board of Oral Medicine

E. BRADY HANCOCK

President
Indiana Society of Periodontists

JOSEPH F. HEIDELMAN

President
Indiana Society of Oral and Maxillofacial Surgery

ROSE MARIE JONES

President
Indiana Section, American Association for Dental Research

B. KEITH MOORE

President
Theta Theta Chapter
Omicron Kappa Upsilon Dental Honor Society

CARL W. NEWTON

Director, District IV
American Association of Endodontists

BYRON L. OLSON

President
Indiana Federation of Communities for Drug-Free Youth, Inc.

MARGOT L. VAN DIS

Director, American Board of Oral and Maxillofacial Radiology
(5-year elected office; first woman to serve on board)

GAIL F. WILLIAMSON

President
Indiana Dental Hygienists' Association

Honors**LEHMAN D. ADAMS, JR.**

Living Legend recognition by Living Legends in Black and the Hoosier Minority Chamber of Commerce

DONALD E. ARENS

Meritorious Medallions from French Dental Association, International Federation of Endodontics, and City of Paris
(All awards presented in France)

LINDA A. ARMBRUSTER

Class of 1992's Special Recognition Award (from classmates)

DANIEL A. BURNS

OKU's William S. Kramer Award to third-year dental student

SANDRA K. BUTCHER

OHRI technician recognized for attaining certification as Assistant Laboratory Technician, Indiana Branch, American Association for Laboratory Animal Science

MICHAEL A. COCHRAN

Civism Award from National Naval Dental Center, Bethesda, Maryland

PAMELA J. ELLIOTT

Administrative Assistant (Clinical Affairs) receiving Class of 1992's Above and Beyond the Call of Duty Award

LAWRENCE P. GARETTO

Distinguished Faculty Award for Research, IUSD Alumni Association

CHRISTIANNE J. GUBA

Distinguished Faculty Award for Teaching, IUSD Alumni Association

MAYNARD K. HINE

Annual Scholarship Lecture created and named in his honor; established by American College of Dentists and IUSD Division of Continuing Education (Thomas A. Corwin, periodontics, first recipient)

Honorary Member, Ohio Dental Association

ROSE MARIE JONES

Elected to OKU

JENNIFER A. KLEIN

Honorary Alumnus Award, IUSD Alumni Association

GINGER J. LASHLEY

Administrative Secretary (Dean's Office) receiving the IUSD Non-Academic Staff Council's Scholarship for employees attending college

MELVIN R. LUND

Annual lecture created and named in his honor; established by IUSD alumni associated with Intercontinental University, Mexico City, Mexico

Inducted as Melvin Jones Fellow, Nora Lions Club

MARK A. MALLATT

Inducted as fellow, American College of Dentists

ORAL AND MAXILLOFACIAL SURGERY DEPARTMENT

Class of 1992's Best Clinic Award

CHARLES J. PALENIK

Distinguished Faculty Award for Teaching, IUSD Alumni Association

DEBRA J. PENNINGTON

Administrative Secretary (Clinical Affairs) receiving Class of 1992's Above and Beyond the Call of Duty Award

W. EUGENE ROBERTS

Cosmos Achievement Award for 1991-SLS (space laboratory for life sciences)-2 Payload Team, National Aeronautics and Space Administration

CHARLES E. SMITH

Distinguished Service Award, IUSD Alumni Association

GEORGE K. STOOKEY

Eldon J. Cox Memorial Award for Distinguished Service, Indiana Branch, American Association for Laboratory Animal Science

ROBERT TAYLOR

Class of 1992's Best Clinical Instructor Award

CHARLES E. TOMICH

Class of 1992's Best Lecture Series

DAVID C. VANDERSALL

Elected to OKU

BILLIE JO VIRGIN

Class of 1992's Best Staff Assistant Award

JANICE M. WARRICK

Outstanding Laboratory Animal Technologist, Indiana Branch, American Association for Laboratory Animal Science

MARK M. WINKLER

Academy of Dental Materials Award for Excellence, presented in association with Northwestern University

New Chairs/Trustees**WILLIAM BORMAN**

National referral chair, American Society of Geriatric Dentistry

VAROUJAN A. CHALIAN

Chair, Indiana Section, American College of Dentists

JOSEPH F. HEIDELMAN

Chair, Oral and Maxillofacial Surgery Section, Methodist Hospital

MAYNARD K. HINE

Honorary co-chair, IUPUI 1992 Campus Campaign

SARA A. HOOK-SHELTON

Chair, Dental Section, Medical Library Association

CHRIS H. MILLER

Chair, American Dental Association's Accredited Standards Committee Subcommittee on Steam Sterilizers

Co-chair, Dry Heat Sterilization and Small Office Steam Sterilization working groups, Sterilization Standards Committee, Association for the Advancement of Medical Instrumentation

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21st Annual Meeting and Exhibition American Association for Dental Research

**Boston, Massachusetts
March 11-14, 1992**

Abstracts of papers presented at the AADR meeting were published in the *Journal of Dental Research*, Volume 71 Special Issue, March 1992. Abstract number and *Journal* page number shown below for each entry. First name in each entry indicates principal investigator; names followed by an asterisk indicate presenters. Names not appearing in full indicate researchers from institutions other than IU. Names of principal investigators and presenters at IU are in bold typeface.

#1374, p277—*Factors Influencing Bond Strength of Resin Inlays to Resin Cement*. **S. Ando***; H. Onose; Kou Hinoura, former visiting scientist, dental materials; B. Keith Moore, professor, dental materials

#1077, p240—*Effects of Microfiller Addition and Silanation on Composite Resin Properties*. **Mark Beatty*** (MS Dental Materials '91); Marjorie Swartz, professor emerita, dental materials; B. Keith Moore; the late Ralph Phillips, research professor, dental materials; T. Roberts

#408, p156—*Effect of Cholesterolized Petrolatum Base on Mucosal Wound Healing*. **Timothy Bussick*** (DDS '94); Chiu-Kwan Poon (MS Dental Diagnostic Sciences '91); Abdel Kafrawy, professor, dental diagnostic sciences

#763, p201—*Degradation of Insoluble Bovine Collagen and Collagen in Human Dentin*. **Shing-Zeng Dung***, graduate student, preventive and community dentistry; Yiming Li, assistant scientist, Oral Health Research Institute (OHRI); Ann Dunipace, assistant scientist, OHRI; George Stookey, professor, preventive and community dentistry

#759, p200—*In Vitro Model for Studying Human Dentin*. **Ann Dunipace***; **Wu Zhang***, research technologist, OHRI; Ralph McClure, research technician, OHRI; George Stookey

#515, p170—*In Vitro Adhesion Tests: Influences of Selected Variables*. **Carolyn Fowler***, adjunct assistant professor, dental materials; Marjorie Swartz; B. Keith Moore

#1111, p244—*Immunoreactivity of Serum IgG Antibodies for *Streptococcus mutans* Isolates*. **Richard Gregory***, associate professor, oral microbiology; M. Singh-Jairam; H. Malmstrom

#560, p175—*Tissue Responses to Root Surfaces Treated With TGF-B*. **E. Brady Hancock***, professor, periodontics; Donald Newell, assistant professor, periodontics; James Humphrey (DDS '88, MSD '91)

#1361, p276—*Color of Die Materials and Cure of Indirect Resin Inlays*. **Kou Hinoura***; S. Ando; Y. Aoshima; H. Onose; B. Keith Moore

#1348, p274—*Cephalometric Analysis of Children with Turner Syndrome*. **Richard Jones*** (DDS '93); Kirt Simmons, assistant professor, orthodontics

#413, p157—*Evaluation of Genotoxicity of a Tooth Whitener*. **Yiming Li***; Timothy Noblitt, research technologist, OHRI; **Ann Dunipace***; George Stookey

#969, p227—*Cytotoxicity of Silicate and ZOE Cements through Human Dentin*. **Yiming Li***; Timothy Noblitt; Kenneth Stookey, senior research technician, OHRI; Ann Dunipace; George Stookey

Short-term Research Training Grants from National Institute of Dental Research for Undergraduate Dental Students

All recipients are members of the DDS Class of 1994:

Timothy J. Bussick

Dr. Abdel H. Kafrawy, mentor
Dental Diagnostic Sciences
Effect of Cholesterolized Petrolatum Base on Mucosal Wound Healing

Denise A. Flanagan

Dr. Chris H. Miller, mentor
Oral Microbiology
In Vitro Antimicrobial Abilities of Disinfectant-Containing Dental Impression Materials

Kathleen A. Smith

Drs. David Bixler and Richard E. Ward, mentors
Oral Facial Genetics
Development of Normal Measurement Standards of the Face from PA Cephalographs

George C. Mansfield IV

Dr. Ann J. Dunipace, mentor
Oral Health Research Institute
Evaluation of the Mutagenicity of Glutaraldehyde in the Ames Test

Sigrid E. Madding

Dr. Byron L. Olson, mentor
Preventive and Community Dentistry
Effect of Nicotine and Cotinine on Cellular Growth Parameters of Transformed Fibroblast Cells from Mouse Connective Tissue

Cynthia Ditslear

Dr. Susan L. Zunt, mentor
Oral Pathology
Use of the Visual Analogue Scale in the Assessment of Subjective Patient Response to Topical Treatment with Cyclosporine for Erosive Lichen Planus

GRADUATES OF POSTDOCTORAL PROGRAMS

July 1, 1991—June 30, 1992

ADVANCED EDUCATION IN GENERAL DENTISTRY (Certificates)

Donald S. Eaton
David J. Ellefsen
William W. Spencer
Amy J. Viano

DENTAL MATERIALS (MS degree)

Mark W. Beatty
Effect of changes in resin matrix chemistry and microfiller addition on composite resin properties

ENDODONTICS (MSD degrees)

Kevin R. Christiansen
In vitro comparison and quantitative analysis of warm lateral condensation and the thermafil obturator

William M. Todd
Immunohistochemical localization of gastrin-releasing peptide (GRP) and gamma-amino butyric (GABA) in human tooth pulp

OPERATIVE DENTISTRY (MSD degrees)

Carolyn S. Fowler
In vitro adhesion tests: influence of selected variables

Martha I. Goel
In vitro evaluation of surface treatment on glass ionomer cement

#994, p230—*Connective Tissue Reactions to Freshly-Prepared Glass Ionomers and Composites.* **Carlo Lo*** (DDS '93); Maria Gaintantzopoulou (MSD Operative Dentistry '90); James Setcos (MSD '88); Abdel Kafrawy

#968, p227—*Influence of Nicotine and Cotinine on Mouse Fibroblasts.* **Sigrid Madding** (DDS '94); **Byron Olson***, professor, preventive and community dentistry; James L. McDonald, Jr., professor, preventive and community dentistry; Yiming Li; Timothy Noblitt

#419, p158—*Triamcinolone Acetonide versus Chlorhexidine for Treatment of Recurrent Aphthous Stomatitis.* **Dale Miles***, associate professor, dental diagnostic sciences; Steven Bricker, professor, dental diagnostic sciences; Thomas Razmus, assistant professor, dental diagnostic sciences; Rosario Potter, professor, oral facial genetics

#509, p169—*X-Ray Diffraction versus SEM Analysis versus "Gillmore" Gypsum Setting Kinetics.* P. Monaghan; Mark Winkler, assistant professor, dental materials; J. Gilbert; E. Lautenschlager*

#1655, p312—*Bond Strength and F Release of an Experimental Orthodontic Resin.* **David Lehman** (MSD Orthodontics '91); **B. Keith Moore***, Gordon Arbuckle, assistant professor, orthodontics

#1410, p282—*Carbamide Peroxide Bleaching: Effects on Enamel Surface Hardness and Bonding.* **David Murchison***, former U.S. Air Force fellow, dental materials; B. Keith Moore

#559, p175—*Effects of Collagen and Platelet Derived Growth Factor on Healing.* **Donald Newell***; E. Brady Hancock; Mary Jew (MSD Periodontics '91)

#970, p227—*Mutagenicity of Glutaraldehyde in the Ames Test.* **Timothy Noblitt***; George Mansfield (DDS '94); Ann Dunipace; Yiming Li; Adriana Origel, dental research technician, OHRI; George Stookey

#1307, p269—*Comparison of Plaque pH Response from a Variety of Sweeteners.* **Kichuel Park***, professor, preventive and community dentistry; Bruce Schemehorn, research associate, OHRI; George Stookey; H. Butchko

#641, p186—*In Situ Assessment of Enamel Fluoride and Mineral Changes.* **Ann Dunipace**; **Konstantin Pavolotsky***, dental research technician, OHRI; Andrew Beiswanger, dental research technician, OHRI; Ralph McClure; George Stookey

#1340, p273—*Genetic Analysis of Dental Biometric Traits in Twin Half-Sibs.* **Rosario Potter***

#275, p140—*Effects of Copper Addition on Mechanical Characteristics of NiTi Alloys.* R. Sachdeva; S. Miyazaki; Yoshiki Oshida, associate professor, dental materials; F. Farzin-Nia*

#276, p140—*Effect of Bending on Austenetic Finish Temperature of Orthodontic NiTi Wires.* R. Sachdeva; F. Farzin-Nia; **Yoshiki Oshida***

#644, p186—*Fluoride Uptake and Remineralization in Human Bovine Enamel.* **Bruce Schemehorn***; Richard Farnham, senior dental research technician, OHRI; Gerald Wood, research associate, OHRI; George Stookey

#1355, p275—*Growth Assessment of Children with Craniofacial Anomalies.* **Kirt Simmons**; Holly Wentz (DDS '92); **John Pritchett*** (DDS '94)

#1311, p269—*Effect of Sweetening Agents on Caries in Rats.* **George Stookey***, Janice Warrick, assistant director, animal research facility, OHRI; Linda Miller, senior technician, OHRI

#1312, p270—*Effect of Aspartame on Caries Formation in the Rat.* **George Stookey**; **Janice Warrick***, Carol Rodlun, former assistant director, animal research facility, OHRI

#717, p195—*Pulpal Response to Dentin Acid Etching in Sealed and Unsealed Restorations.* **George Willis***, associate professor, operative dentistry; Michael Cochran, professor, operative dentistry; Abdel Kafrawy

#517, p170—*Effect of Technique on Shear Bond Strength of Dentin Bonding.* **Mark Winkler***; E. Lautenschlager; A. Boghosian; E. Greener

Lisa H.S. Hall

Effectiveness of etching cervical enamel in Class V composite resin restorations as related to marginal configuration and distance from the CEJ

Eduardo G. Reston

Retentive pin systems: in vitro evaluation of retention, resistance, and seating properties

ORAL AND MAXILLOFACIAL SURGERY (Certificates)

John J. Hockema

Jeffrey S. McBride

ORAL PATHOLOGY (MSD degree)

Jayashree Ravi Mysore

Immunohistochemical study of C-erbB-2 oncoprotein in salivary gland tumors

ORTHODONTICS (MSD degrees)

Robert D. Colter

Cell kinetic analysis of osteoblast histogenesis in the rat periodontal ligament following exposure to hard and soft diet

David L. Harris

Effects of flurbiprofen on the osteogenic response of the rat periodontal ligament to orthodontic force

David A. Lehman

Evaluation of tensile bond strength of a fluoride-releasing resin adhesive with ceramic brackets

Linda K. Shields

Effects of flurbiprofen and orthodontic stimulation on osteogenesis in the rat mandibular condyle

Brenda K. Stenftenagel

Cell kinetic analysis of osteoblast histogenesis in the rat mandibular condyle following exposure to hard and soft diets

PEDIATRIC DENTISTRY (Certificates)

John D. Hiester

Richard B. Troyer

PERIODONTICS (MSD degrees)

Susan B. Gibson

Determination of bacterial consistency among sites that are clinically healthy or diseased in a periodontal recall population

James M. Humphrey

Connective tissue response to human root surfaces treated with transforming growth factor-Beta and implanted transcutaneously in the calvaria of rats

Mary M. Jew

The effect of locally applied collagen and platelet-derived growth factor on healing of bony defects in rats

Barclay Kirkland

Clinical evaluation of the vacuum tray

PREVENTIVE AND COMMUNITY DENTISTRY (MSD degree)

Salwa P. Sizk

Oral health survey for school children ages 5 to 13 having limited access to dental services

PROSTHODONTICS (MSD degrees)

Richard G. Cleary

A laboratory investigation of all-ceramic restorations fabricated on refractory die materials

Phillip A. Chang

A comparison of the distortion produced by three soldering methods

Guillermo Bernal Dulcey

Accuracy of estimated water-powder ratios for dental stones

Poey-Ling Loh

Evaluation of microwave polymerizing acrylic resin for removable partial denture applications

Joseph J. Macy

Comparison of the dimensional accuracy of fixed partial dentures conventionally indexed with plaster and those soldered using a refractory cast

Luis J. Rueda

Effect of impression material thickness on the accuracy of stone casts

Jeannie Vickery

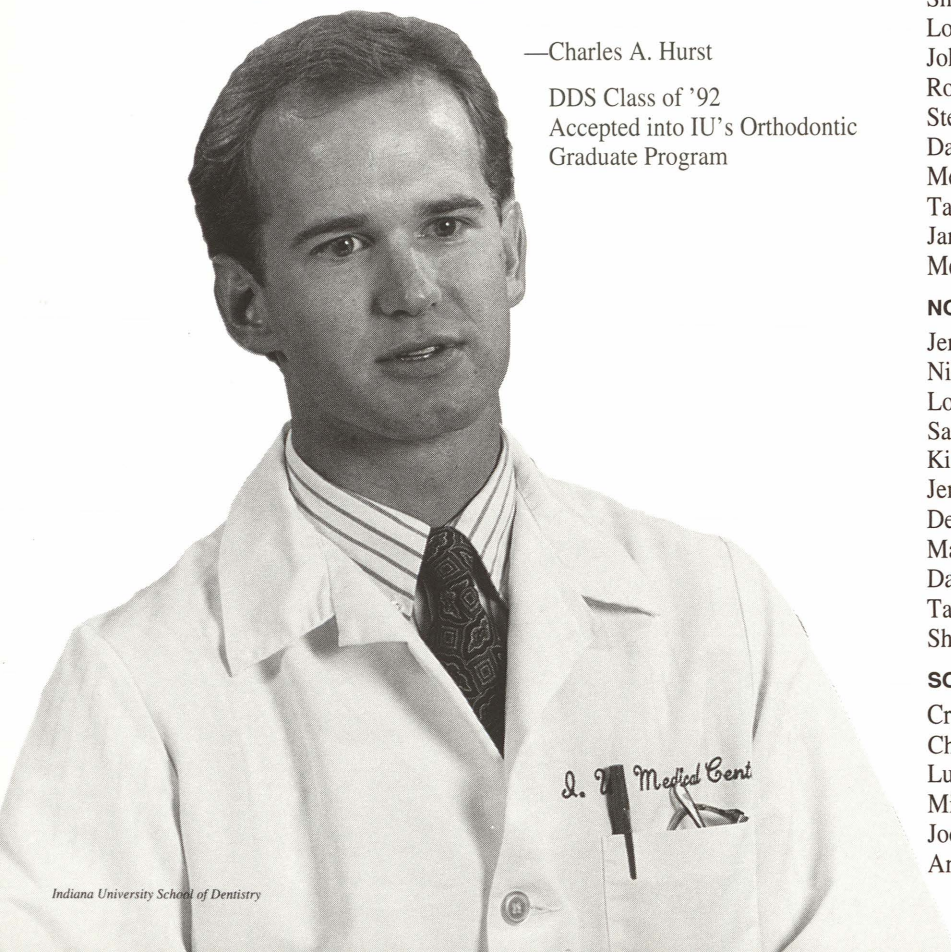
In vivo disintegration of luting cements

CLASSES OF 1992

"Dentistry combines two of my interests—biology and mechanics. As a profession, it offers me an opportunity to serve my community. I'm attracted to orthodontics because there are endless combinations of dental problems in this specialty—and few routine solutions. To diagnosis and treat each patient, I will have to apply my education to reach my own conclusions about patient care. I think the University's greatest responsibility is to teach us how to think for ourselves, and how to continue learning long after graduation."

—Charles A. Hurst

DDS Class of '92
Accepted into IU's Orthodontic
Graduate Program



48

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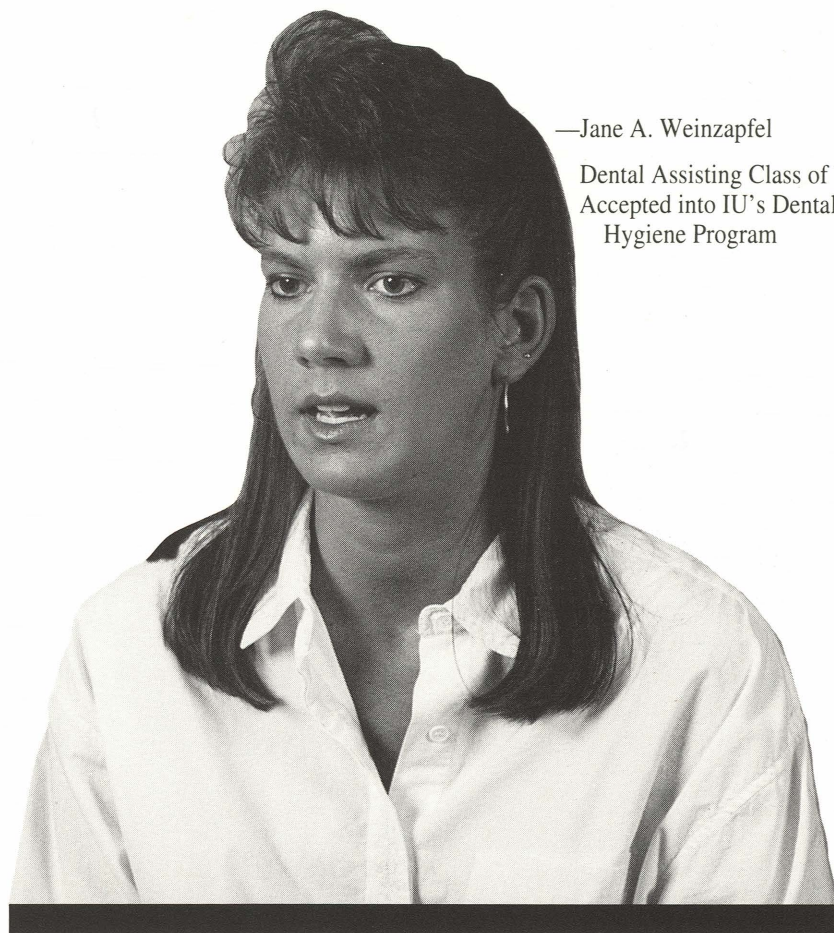
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—Jane A. Weinzapfel

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Accepted into IU's Dental
Hygiene Program

"My interest in dentistry stems partly from my father (Richard Weinzapfel, DDS'66), although he left the decision to pursue a dental career totally up to me. Dental assisting is great because you are helpful to the dentist and the patient. I especially liked assisting during oral and periodontal surgeries. Now I'm looking forward to further challenging myself and assuming the responsibility of working directly with patients as a dental hygienist. This career choice offers me stability, options, and a chance to help others."

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