

ALUMNI BULLETIN

NS Volume 1, Number 2
Winter 1987



Indiana University
School of Dentistry



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Alumni Bulletin
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On The Cover

One brief shining moment . . . there at the Fall Dental Conference, September 1986. Participants shed some light on the annual alumni banquet in Bloomington, with the help of miniature flashlights, compliments of the IU School of Dentistry Alumni Association. IUPUI photographer Rick Baughn focused his camera on members of the audience while they aimed their flashlights at him. A recapping of the three-day event—and plenty of photos—follow in this issue.

Indiana University School of Dentistry Alumni Bulletin is published four times a year: Fall, Winter, Spring, Summer, for Indiana University School of Dentistry alumni. Material included herein does not necessarily represent the official position of the School. The editorial office is located in the Indiana University School of Dentistry, Room 104, 1121 West Michigan Street, Indianapolis, IN 46202. Telephone 317/274-5405.

PUBLICATIONS STAFF: **Editor:** Jack E. Schaaf; **Managing Editor:** Susan M. Crum; **Associate Editors:** Paul Barton and Ralph W. Phillips; **Designer:** Diane Alfonso, IUPUI Publications; **Photographer:** Mike Halloran; **Staff Illustrators:** Rolando A. DeCastro and Mark A. Dirlam; **Photographic Technician:** Alana L. Larkin; **Alumni Officers:** Charles E. Smith, *President*, Robert N. Modlin, *President-Elect*, Lester E. Tweedle, *Vice-President*, Karen S. Yoder, *Secretary-Treasurer*.



Fall Conference Kaleidoscope

Memories in the Making

Fall Dental Conference photos by Rick Baughn, Mike Halloran, Jack Carr and Susan Crum.

Dental Alumni Gather To Learn, Visit, Enjoy

Dark September skies over Bloomington opened up frequently during the 1986 Fall Dental Conference, keeping Thursday's golf action touch-and-go, and Friday's tennis matches in a precarious (and soggy) state. But it takes more than a few cloudbursts to put a damper on the annual three-day celebration of School of Dentistry alumni, families, and friends. Hundreds of folks with ties to the dental school showed up as usual, settling into the Indiana Memorial Union or at local inns and hotels to be on hand for a grand time. There were program highlights offered up by the IUSD Alumni Association, chances to get reacquainted with classmates, and an opportunity to watch the Fighting Hoosiers seek victory on the football field (a win that came easily, by the way, against Navy's midshipmen, 52-29).

The Alumni Association packed enough events between September 18 and 20 to keep even the most energetic grads on the run. Photographers did their best to keep pace. The myriad activities included:

Thursday

- Annual golf outing, IU Championship Golf Course, coordinated by Dr. Hollis Sears.
- Board of Directors: meeting in the Distinguished Alumni Room, Indiana Memorial Union, President Richard "Buck" Buchanan presiding; reception at Showalter House, hosted by IU Foundation Vice President Eugene Tempel; dinner at Mamma Grisanti Italian Restaurant.

Friday

- Past Presidents' Breakfast, IMU State Room West, speaker Kenneth P. Hydinger, men's tennis coach.
- IUSD Continuing Education Program, IMU Whittenberger Hall, coordinated by Dr. Robert H. Derry. Presentations by Dr. Timothy J. O'Leary, professor of periodontics, and Dr. Floyd E. Hale, assistant professor of prosthodontics.

- Ladies' Luncheon, IMU Frangipani Room, guest of honor Pat Ryan, wife of University President John Ryan.
- Press Box Luncheon and Stadium tour.
- Tennis tournament, Woodlawn Courts, coordinated by Dr. Robert Modlin and Ms. Karen Yoder.
- President's Reception, IMU University Club.
- Awards Banquet, IMU Alumni Hall. Distinguished Alumni: Dr. William I. Lawrance, Class of '47, Indianapolis; and Dr. Harvey G. Thomas, Class of '52, Muncie. Distinguished Faculty: Dr. George K. Stookey, director of the Oral Health Research Institute

and professor of preventive dentistry. Honorary Alumnus: Dr. D. Paul LaCount, of Valparaiso. The Distinguished Service Award was given in absentia to Dr. Glenn W. Irwin, Jr., former vice president of Indiana University, Indianapolis.

Saturday

- Continuing Education Round Tables, IMU Georgian Room.
- Pre-game brunch, IMU Solarium. Certificates of appreciation to Mr. Danny R. Dean and Ms. Carla J. Totten, and prizes to golf and tennis tournament winners. Dr. Buchanan addressed the conference for final time as president, and Dr. Charles E. Smith was installed as president for 1986-87.
- Pre-game and half-time reception, Stadium, hosted by Varsity Club.
- Finally, a football game to remember!

A conference recap in photos follows:

Past Presidents' Breakfast



Kenneth P. Hydinger, head coach of men's tennis (standing) was speaker at Past Presidents' Breakfast.



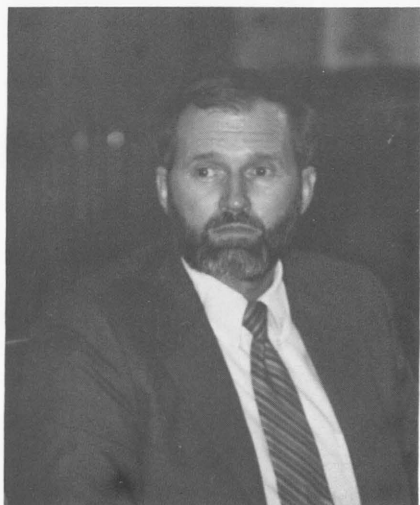
Back row, from left: Drs. Daniel R. Lindborg, Gerald E. French, Jack D. Carr, Malcolm E. Boone, Willard H. Damm, George A. Welch, Ralph E. McDonald, Charles W. Gish, Albert C. Yoder, Jr., H.

William Gilmore, and Maynard K. Hine; front row, from left: Drs. Gene F. Hedrick, Edward Young, James W. Huckelberry, John L. Turchi, John L. Campbell, Paul H. Asher, and James D. Frey.

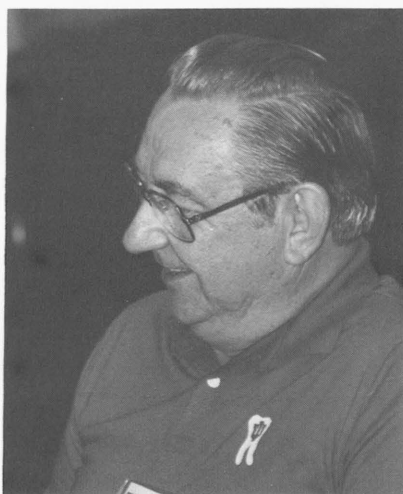
Board of Directors meets... ...and dines



*Dr. Eugene R. Tempel, University
Foundation VP*



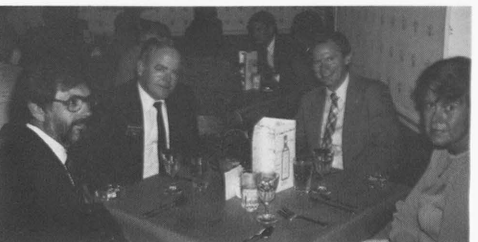
*Dr. Charles E. Smith (then president-
elect)*



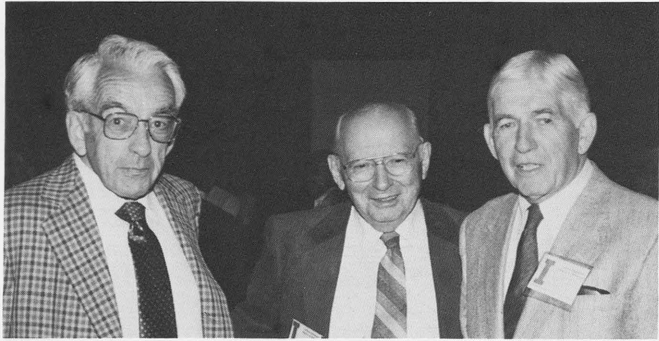
*Dr. Richard Buchanan, 1985-86 IUSD
Alumni Association president*



*Ms. Anita A. Walters, IUSD Student
Affairs Council president*



Continuing Education Programs



Dr. Timothy J. O'Leary (left), professor of periodontics, with Chancellor Emeritus Maynard K. Hine (center), and Dr. Joseph F. Volker ('36), former chancellor, president, and dental dean at the University of Alabama. Dr. O'Leary presented a program on "Changing Concepts in Periodontal Treatment."



Dr. Floyd E. Hale (center), with Mrs. Hale and Dean H. William Gilmore. Dr. Hale's program topic was "Esthetics and Function in Denture Construction: Challenge and Satisfaction."

Ladies' Luncheon



Ladies' Luncheon guest of honor was Pat Ryan (standing), wife of University President John Ryan and honorary member of the Alumni Association.

Press Box, Etc.



Kit Klingelhofer, sports information director



Frank Jones, director of alumni affairs



Bill Mallory, head football coach



Ralph Floyd, director of athletics

At the President's Reception



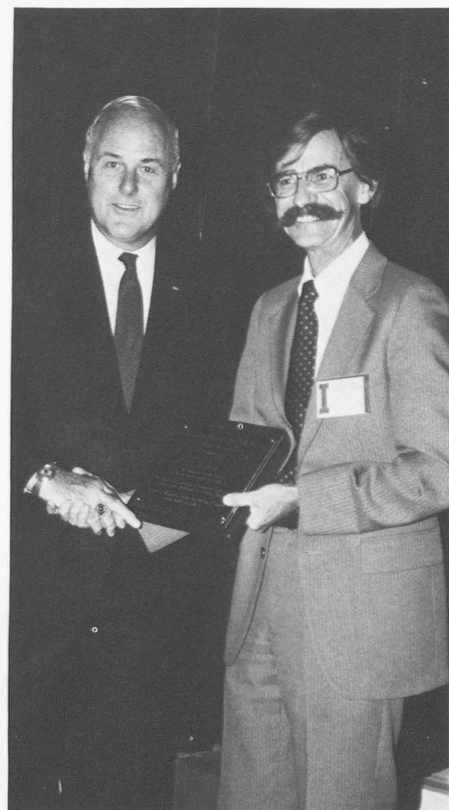
The Awards Banquet



A Distinguished Alumnus Award was also presented to Dr. Harvey G. Thomas (right) by Dr. Maynard K. Hine.



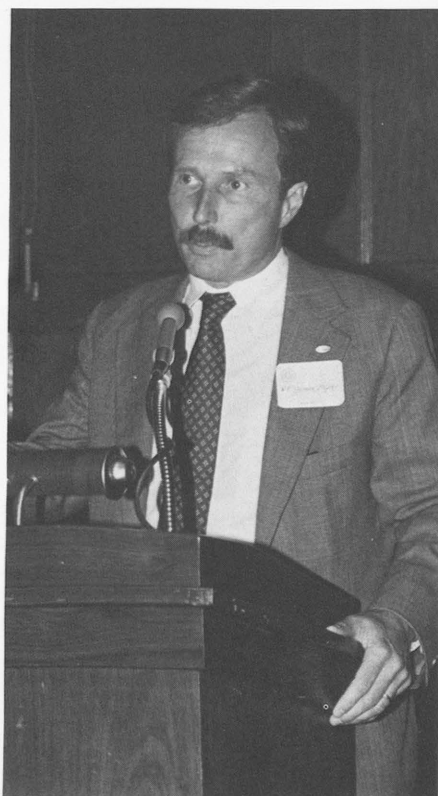
Dr. William I. Lawrance (left) received Distinguished Alumnus Award from Association President Buck Buchanan.



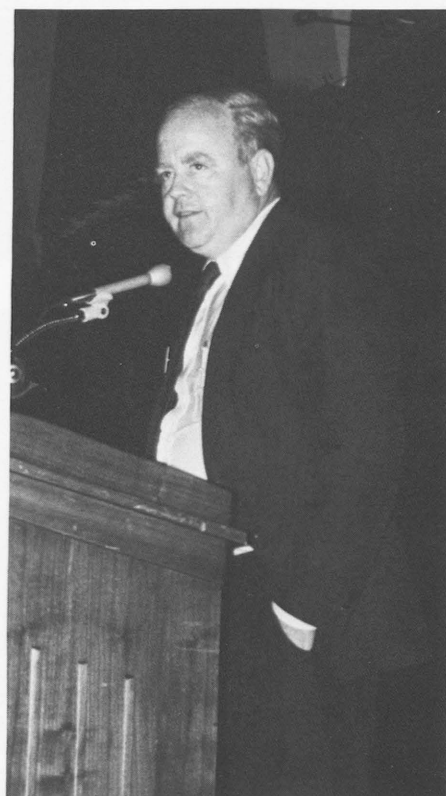
Dr. George K. Stookey (right) received the Association's first Distinguished Faculty Award from Dr. H. William Gilmore.



Honorary Alumnus Award went to Dr. D. Paul LaCount (left), presented by Dr. Charles W. Gish.



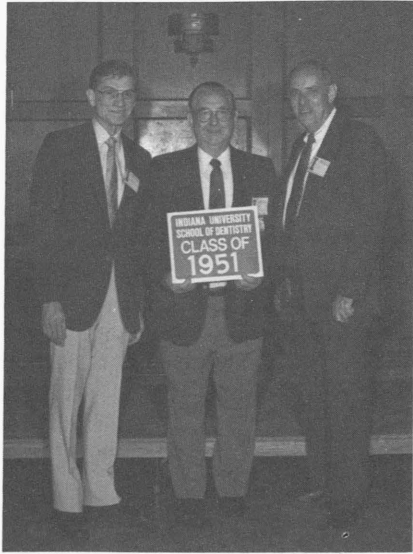
Gerald L. Bepko, IU Vice President (Indianapolis), and IUPUI Alumni Association Director Charles M. Coffey addressed banquet audience.





Reunion Time





Saturday Morning Round Tables



Dr. George P. Willis (third from left): "Endodontics on Large Carnivores"



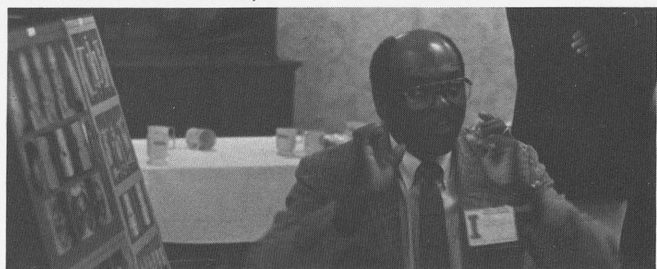
Prof. Charles J. Palenik (right): "AIDS Update"



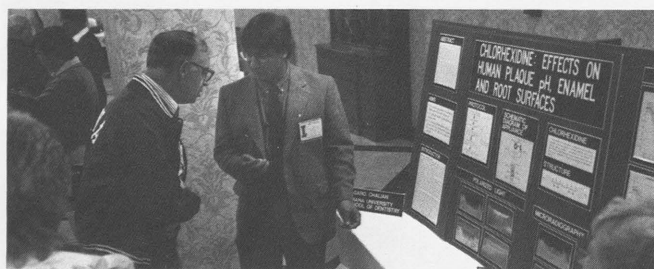
Dr. Charles E. Smith (left): "Prevention of Disease Transmission: The Preventive Dentistry of the 80's" (presented with Ms. Karen S. Yoder)



Dr. Ben J. Fisher (right): "The Emergency Denture"



Dr. LaForrest D. Garner: "What's Your Diagnosis and Treatment?"



Mr. G. Garo Chalian, 4th year student (center): "Chlorhexidine: The Effects on Remineralization of Root Surfaces and Plaque pH"



Mr. Donald Nealy (left): "Emergency Repairs in the Dental Office (Dentures and Partials)"

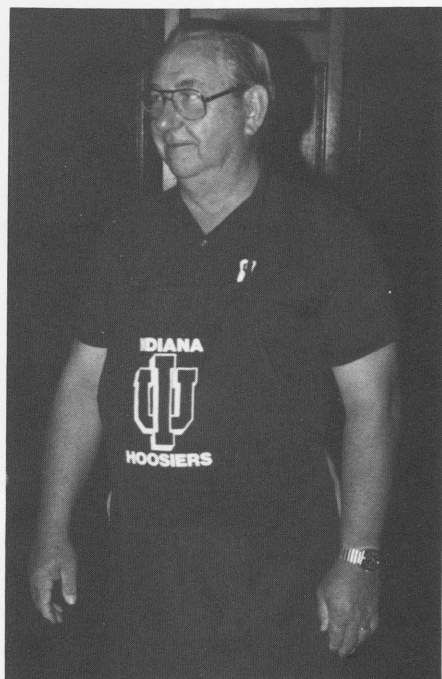
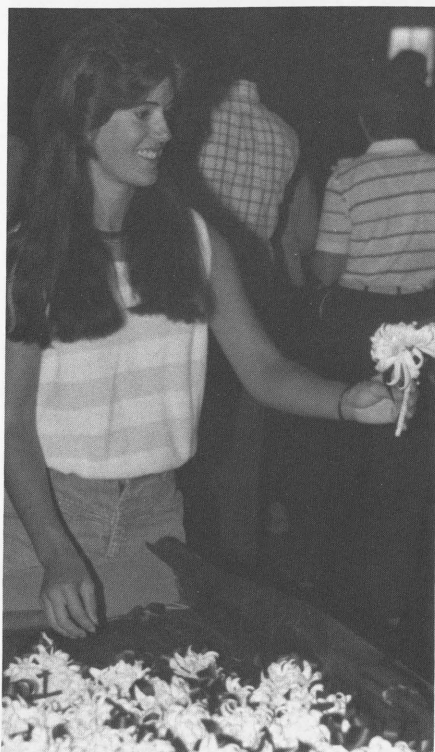


Dr. James C. Setcos (left): "Posterior Composite Resins"



Prof. Roberta M. Hilderbrand: "Hypertension Screening"

Pre-Game Brunch



Dr. Buck Buchanan, IUSD Alumni Association President 1985-86



Ms. Carla J. Totten was recognized with a Certificate of Appreciation for service as Alumni Association secretary-treasurer.



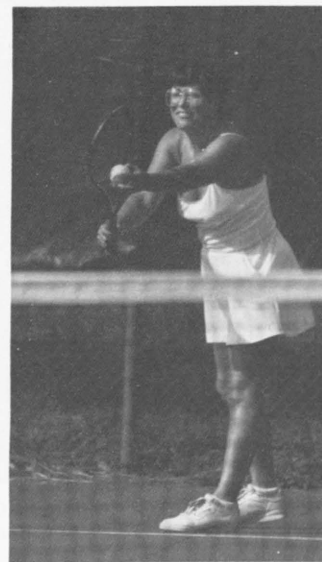
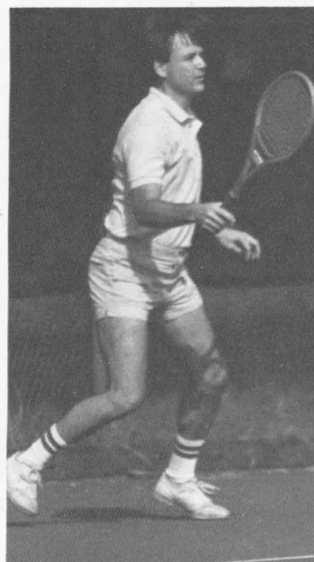
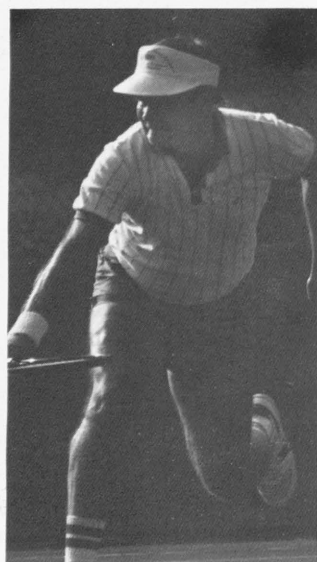
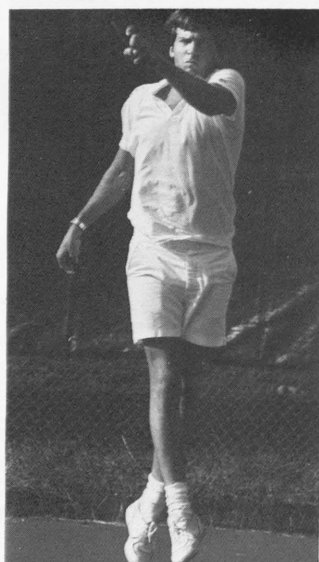
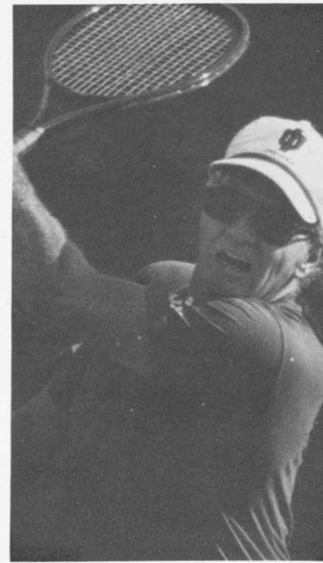
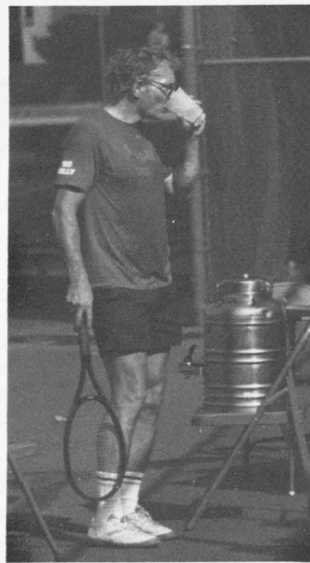
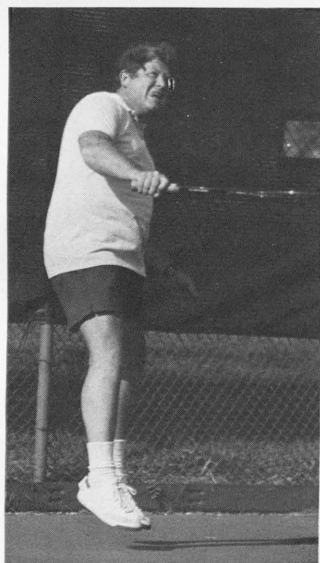
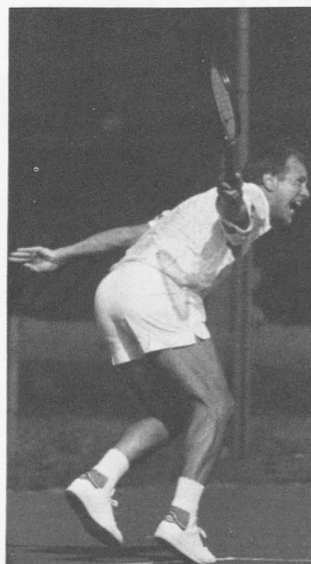
Mr. Danny R. Dean accepted a Certificate of Appreciation from the Alumni Association for contributions as former assistant director of alumni affairs.



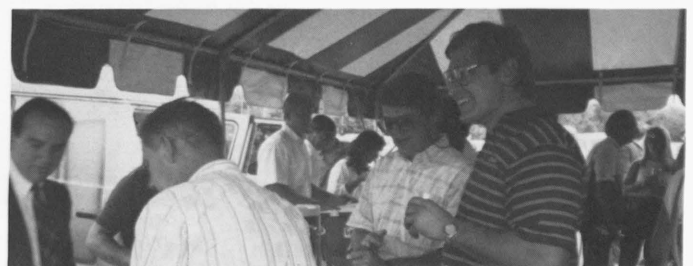
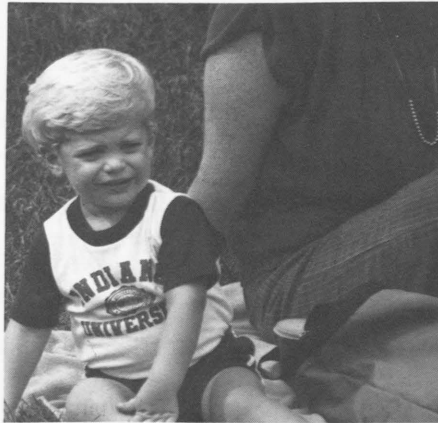
Thanks go to Dr. Hollis H. Sears (seated, with Dr. H. William Gilmore), for coordinating the golf outing once again.

Court Proceedings

Thanks are extended to Dr. Robert Modlin and Ms. Karen Yoder for coordinating the tennis tournament.



Tailgaters, shoppers, and a touchdown for IU



Resuscitation Training Firmly in Place at IUSD

Last year marked the 25th anniversary of what may be considered the modern approach to cardiopulmonary resuscitation (CPR). The story really goes back to 1957, when the National Research Council recommended mouth-to-mouth ventilation as the preferred method of resuscitating infants and small children. The recommendation was revised in the next year to include all persons requiring emergency resuscitation. The method was accepted by the American Red Cross, U.S. Public Health Service, U.S. Department of Defense and other agencies concerned with artificial respiration.¹

Problem: There was no effective method for training people to perform mouth-to-mouth ventilation.

Solution: In New York in 1960, perhaps by fate, Archer S. Gordon, M.D., happened to meet Asmund S. Laerdal, a Norwegian toy and doll maker. Laerdal was exhibiting Resusci-Anne, a device for teaching mouth-to-mouth resuscitation, that he had created for the Norwegian Society of Anesthesiologists. The manikin was life-size, dressed in a blue ski suit. Her features were tranquil: closed eyes, an unfathomable smile, sad yet happy. When her head was in maximum extension, her lungs could be inflated, the chest rose and fell, and the rescuer could hear air escape when the manikin exhaled. The airway became obstructed if the head was not adequately extended.¹

In August, 1961, the First International Symposium on Resuscitation was held in Stavanger, Norway; and its recommendations were published in the *Journal of the American Medical Association*. Also in 1961 the external

ROBERTA M. HILDERBRAND,
Associate Professor of Community Dentistry*

cardiac compression technique was developed by three physicians: James R. Jude, G.G. Knickerbocker, and William B. Kouwenhoven. Resusci-Anne was modified so that she had a compressible chest with a sponge rubber heart which produced a palpable pulse in her neck when artificial circulation was performed effectively.¹

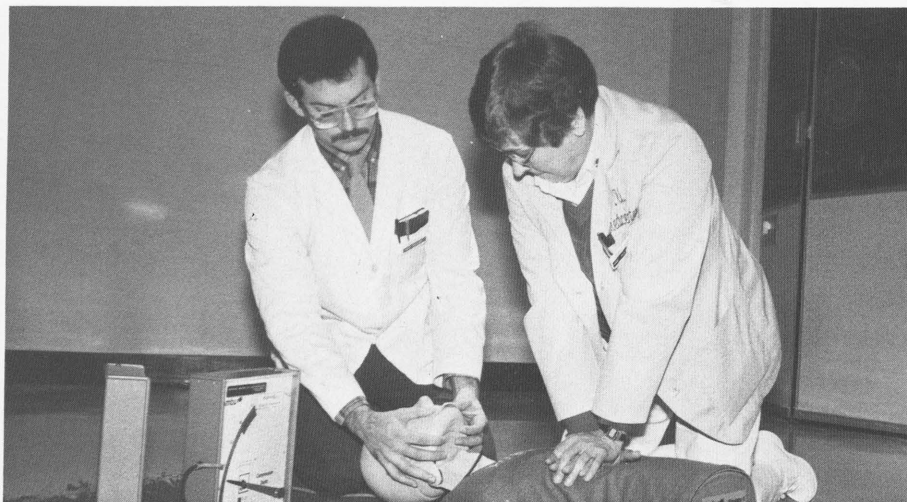
Varied Models

Since the introduction of Resusci-Anne, an estimated one hundred million people throughout the world have been trained in CPR on 70,000 copies of the manikin. The Laerdal Company has made black and oriental models of Anne, also Resusci-Andy, Resusci-Jr. and Resusci-Baby. Some manikins come with electronic lights that indicate if the trainee is performing ventilations and compressions properly.

The First Conference on Cardiopulmonary Resuscitation was held in Washington, D.C., in 1966. The

National Academy of Sciences-National Research Council made comprehensive recommendations regarding all aspects of CPR. It was recommended that medical, allied health and other professional personnel be trained in the chest compression technique according to standards of the American Heart Association.²

The Basic Life Support (BLS) program at Indiana University School of Dentistry was started in the spring of 1978. (Basic life support includes CPR and management of a conscious or unconscious choking victim.) Dental students were assigned to a four-hour session to learn CPR, but they were not required to be tested for certification. However, at the Annual Senior Razz Banquet that year an invited guest suffered cardiac arrest while walking across the dance floor. CPR was started at the scene, and when paramedics arrived advanced life support was started. The victim was transported to a hospital, but did not respond to life-saving procedures. On the following Monday, when I arrived at school, several students were waiting for me since I was the course instructor. They asked if a second session in BLS could be arranged so they could complete the course for certification. Several sessions were held, with more than half of the class completing the course and receiving certification. At present BLS training is required of all second, third, and fourth year students at the School of Dentistry.



Fourth year dental student Peter A. Grieser, a certified CPR instructor, and author demonstrate CPR technique on "Chris Clean."

Prof. Hilderbrand has coordinated the Basic Life Support program since its inception at the School.

This article reviews significant developments in the BLS program nationwide, including recent changes, and focuses also on relevant events in our own area.

Standards Emphasized

A national conference on standards for cardiopulmonary resuscitation and emergency cardiac care in 1972 was co-sponsored by the American Heart Association and the National Academy of Sciences and National Research Council. The conference recommended that CPR training programs be extended to the general public, that training be in accordance with the standards of the AHA, that the AHA continue to review scientific data and clinical experience and revise and update the standards, and that certification of competence at various levels of life support be based on nationally standardized curricula that include written and performance tests.²

During another national conference in 1979, it was determined that the traditional precordial thump technique should be used in a case of cardiac arrest only if the victim is attached to a heart monitor, as in an ambulance. Accordingly, the chest thump technique was deleted from the basic life support curriculum and became a part of the advanced life support course.

From 1977 to 1985 there were only two levels of basic life support training: Heartsaver and Basic Life Support. The Heartsaver course dealt with didactic background material: anatomy and physiology of the heart and lungs, risk factors which may lead to a heart attack, ways of modifying the risk factors, and early warning signs of a heart attack. The course also included one-rescuer CPR for an adult victim and management of an adult choking victim.

The basic life support course consisted of all the material in the Heartsaver course with the addition of two-rescuer CPR for an adult victim, CPR for infants and management of a choking victim.

At a third national conference in 1985, several significant changes in the training program were made, and

these changes will be noted later in this article.

Rescue in Indiana

Concerning developments closer to home, two weeks after a northern Indiana dentist attended a basic life support course held at the Indiana Dental Association Annual May meeting, there was a need for his skills. The dentist and a neighbor, who was a volunteer fireman and enrolled in an emergency med-

A dental hygienist found the need to use basic life support skills a few weeks after she completed a course.

ical technician course, had settled down in front of a television set to watch a professional basketball play-off game. The fireman had his emergency scanner turned on. After hearing a transmission dispatching an ambulance to a nearby address, the two men ran to the scene. They arrived before the ambulance and found an elderly man down. He had been mowing grass, and he was lying half in the street and half in the yard.

The dentist started compressions and the fireman performed the ventilations. A paramedic ambulance arrived. A defibrillator was used on the victim and other advanced life support procedures were started. The man later recovered in the hospital and was dismissed.

A dental hygienist found the need to use basic life support skills a few weeks after she completed a course. After dining at a restaurant, she walked into the ladies' room to find a woman who was choking. The hygienist applied back blows and an abdominal thrust to the victim and out popped a piece of food.

Although basic life support measures have saved thousands of lives across the nation, unfortunately not all cases are successful, especially when severe trauma is involved. Another northern Indiana dentist who had

attended the BLS course at the May meeting of the Indiana Dental Association became involved in such an event. At a discount store across the street from the dentist's office, a sniper gunned down several shoppers, then shot himself. The dentist responded to the emergency and applied CPR to a wounded customer in the store, but his effort came too late.

New Course Lineup

There are now five types of courses, labeled A, B, C, D, E, and each carries certification.³ Basic Life Support course A is the Heartsaver course and is appropriate for lay persons. Course B includes the Heartsaver course, plus infant and child CPR and management of an infant and child choking victim. This course, too, is appropriate for lay persons. Course C is recommended for health care providers and other professional rescuers. It includes A and B with the addition of two-rescuer CPR, as in the case of a dentist and an auxiliary. Although not required for certification in course C, training in mouth-to-mask ventilation is highly recommended.⁴ (Use of the specially designed mask is advocated as an alternative to direct mouth-to-mouth resuscitation.) Course D is limited to training in pediatric CPR and management of a choking infant or child. It is designed for parents and others with special interest in infants and children. Course E is designed for specially defined populations such as the physically challenged (i.e. blind, deaf or medically compromised).

The restructuring of the basic life support courses will make it simpler to train lay persons who may have a special interest in only a specific area of basic life support. Also, health care providers will have the opportunity to train in mouth-to-mask resuscitation, which previously has been an adjunct technique of the advanced life support course.

Changes in techniques required for certification follow:

1. The head-tilt/chin-lift is the only method for opening the airway of an unresponsive victim that will be taught to lay people. Health care providers will be taught the jaw-thrust technique as an alternative method.

2. To initially ventilate a victim in cardiac or respiratory arrest, two ventilations in a period of 1.0-1.5 seconds are given instead of four "stair-stepped" ventilations. The volume of air given to the victim should be from 0.8 liter to 1.2 liters. The lesser volume and slower rate should reduce the probability of exceeding esophageal opening pressure, thus a reduction in gastric distension, regurgitation, and pulmonary aspiration.
3. To further guard against gastric distention, there is a 1.0 to 1.5 second pause in compressions while ventilations are performed during two-rescuer CPR.
4. The compression rate on an adult victim is increased to compensate for the slower ventilation time. For one or two-rescuer CPR, the rate will be 80 to 100 compressions per minute.
5. The Heimlich maneuver is recommended for relieving foreign body airway obstruction in children and adults. Back blows are not given on children and adults. A combination of back blows and chest thrusts is still used on choking infants. For grossly obese adults and women in the late stages of pregnancy, the chest thrust is recommended.
6. Infant and child CPR begins with two ventilations at 1.0 to 1.5 seconds per breath with a slight pause between breaths.
7. The site for giving compressions on an infant is one finger-breadth below the imaginary intermammary line.

2,300 Trained

Since the basic life support program was started at Indiana University School of Dentistry, approximately 2,300 dental professionals have been trained in BLS. This total includes dental, dental hygiene, dental assisting and graduate students, faculty and staff members, and many Indiana dentists and their auxiliaries. Dentists have traveled from all corners of the state to attend continuing education courses—from South Bend, Ft. Wayne, Terre Haute, Richmond, Evansville, New Albany, St. John, Vevay, and other communities. Fifty-three people have become BLS instructors through instructor courses taught at IUSD.

Since the basic life support program was started at Indiana University School of Dentistry, approximately 2,300 dental professionals have been trained in BLS.

Indiana University School of Dentistry has received certification from the American Heart Association as a basic life support training center. The School is purchasing new manikins, pocket masks, and audio-visual training films. Instructors have been updated in the new BLS methods and are eager to teach these techniques.

Volunteer instructors in basic life support training programs conducted at the School of Dentistry and at the Indiana Dental Association's Annual Meeting include full-time and part-time faculty members, dentists and auxiliaries in private practice, and others. A partial list follows: Drs. Travis L. Bauer, Thomas P. Byrnes, James H. Dirlam, M. Fran Dzurinko, Steven C. Graham, Joseph Heidelberg, Hala Z. Henderson, Bernida Iqbal, Todd M. Kaminski, Kenneth K. Kaneshiro, Greg McGowan, M. Charles Moll, Gregg Noll, Jack E. Schaaf, Denise Unterbrink, and Michael Wagner; Ms. Barbara Broadfield, Ms. Jan M. Leach, Ms. Teresa Macauley, Ms. Donna Kay Maddox, and Ms. Carolyn Wegner; Mr. Peter Grieser, Mr. Timothy G. Jones, Mr. R. Hunter Rackley, and Mr. Edward D. Starkey.

REFERENCES

1. Gordon, A.S.: A Death Mask to Help Save Lives (The Story of Resusci-Anne), Laerdal Company, n.d.
2. Standards and Guidelines for Cardio-pulmonary Resuscitation and Emergency Cardiac Care, JAMA 255:2905, June 6, 1986.
3. Interim Teaching Guidelines for Revisions in Basic Life Support, American Heart Association National Center, Dallas, Texas, April, 1986.
4. Hilderbrand, R.M.: Mouth-to-mask resuscitation in the dental office, J Indiana Dent Assoc, 65:19, 1986.

Manikin Group Growing Again

The manikin colony at the Indiana University School of Dentistry now numbers eight, with two additional members due to join up soon. These are the life-size plastic figures used in basic life support training at the School.

First acquisitions (in 1978) were a Resusci-Anne, a Recording Resusci-Anne, and a Resusci-Baby. A few years later two Mani-manikins and a Resusci-Baby with electronic indicators were purchased. In 1985 two Chris Clean manikins were added. Two more Chris Cleans are on order.

Chris Clean is especially popular because it has a disposable air bag in the head (there are no internal airway tubes). A removable mouth/nose fits into the manikin's face. Each trainee uses an individual air bag and mouth/nose piece. The air bags are discarded, and the mouth/nose piece can later be scrubbed and soaked in sodium hypochlorite solution.

Manikins used at IUSD range in cost from \$485 for the Mani model to \$1,250 for a Recording Resusci-Anne.

Alumnus Close-up

Dr. Gene F. Hedrick

Class of 1959

Salem, Indiana: population, 5,000. A quiet town in the south central part of the state. A great place for a boy to grow up—and for a man to settle down. So says Dr. Gene F. Hedrick, an IUSD Class of '59 graduate and lifetime resident of Salem, whose career as a general dentist has brought much enjoyment and many rewards.

"I love being a small-town dentist," he says. "My home is three minutes from the dental office and five from the golf course. We're close to Louisville and Bloomington."

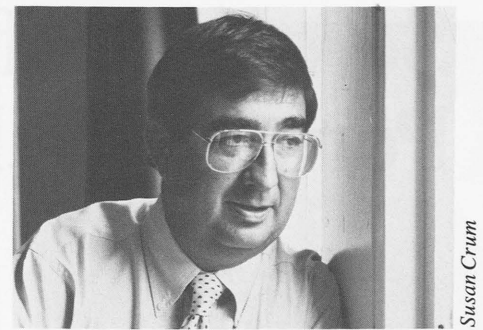
After graduating from Salem High School in 1952, Gene headed for Purdue University to pursue an engineering degree. A year later he changed his mind and transferred to IU-Bloomington. "My college roommate had a buddy who slept on our floor for a while," Gene recalls. "He was in pre-dent and talked a lot about dentistry. That was my first real contact with dentistry and from listening to him I began to develop an interest. Ironically, the pre-dent student eventually wound up in radio/tv and I was the one who became a dentist!"

Gene grew up with two sisters and an identical twin brother, Jack, who shared his devotion to basketball. (Both played on the high school team.) Jack also left Purdue after a year and earned

his degree at Indiana in optometry. Like Gene, Jack returned to Salem, where each man has been routinely mistaken for the other over the years. Gene takes in stride the countless number of people who have walked up to him on the street and started talking about their eye-glasses or cataracts. He believes, as many do, that a special bond exists between twins, and cites one of many such experiences he's had with his twin: A couple of years ago, Jack was on a mission as an eye doctor in Honduras. One evening he began to have excruciating pain in his back. During that same time, unknown to Jack, Gene was undergoing back surgery in Indiana.

The entire Hedrick family remains close to this day. "Mom is 84 now," Gene says, "and still has Jack and me over for lunch three or four times a week."

Gene remembers dental school days fondly and characterizes the Class of 1959 as a group of students who all tried to pull each other through. "I was close with Don Arens, Charlie Vieck and Joe Bigelow. We were lively!" Gene laughs. His favorite teacher? "Drex Boyd was the greatest teacher in the world," Gene says. "On your first encounter he was stern and a real disciplinarian, but as you got to know him, you grew with him. Clinically, he could do anything with his hands. On Sundays Drex often



Susan Crum

treated prisoners on the State Farm. Don Arens and I sometimes tagged along, giving the injections while Drex did the extractions."

After a few years in practice, Gene married Judy Cobb, and together they have raised four children: Susan, an '83 IU political science graduate who has worked for Senators Lugar, Quayle, and most recently for the congressional candidate Rick McIntyre; Holly, an IU senior headed for medical school; Brad, an IU sophomore with an eye on the business school; and Sally, a high school junior who runs cross country and track and also shows great promise as a singer. "I'm more proud of my family than anything," he says.

Dr. Hedrick's commitment to his alma mater is 100%. He has been a member of the Varsity Club since 1959, serves on the national board of directors, and was president in 1980. He has attended all School of Dentistry alumni conferences since graduation, served as president of the IUSD Alumni Association in 1980, and received the Association's Distinguished Service Award in 1983. He has been national chairman of the IUSD Alumni Fund Drive. In 1981 he created and promoted the Landon Turner Shoot-a-thon, which raised several thousand dollars to benefit the star member of the 1981 NCAA championship basketball team who was paralyzed from injuries received in an automobile accident. Dr. Hedrick is a board adviser for Indiana University-Southeast and a supporter of Campaign for Indiana, the University's ongoing fundraising effort. "Working for the University has been a labor of love," he says. "I've enjoyed every second of it."

Midstream in a rewarding career, Dr. Hedrick seems very satisfied with his achievements thus far and clearly looks forward to the years ahead.



Gene Hedrick (left) with pals Don Arens (center) and Charlie Vieck in Bloomington this fall

Screening for Periodontal Disease

TIMOTHY J. O'LEARY
Professor of Periodontics

Of all the dental disorders, periodontal disease is one of the easiest to overlook until it is already well established and, in many cases, threatening the loss of teeth. There are a number of reasons for this, including: 1) in incipient stages, the changes in size, color and adaptation of the tissue are often so slight that the gingiva is considered normal; 2) chronic gingivitis and periodontitis, even in an advanced state, frequently cause no subjective symptoms to alert the patient and dentist; and 3) radiographic evidence of bone loss can not by itself be relied upon in making a diagnosis of periodontitis. The radiograph discloses the most coronal extent of bone in interdental areas, but gives little or no information on bone levels on the facial or oral surfaces of the teeth.¹ Even in interdental areas, severe periodontitis can be present with little radiographic evidence of disease (Figs. 1A, 1B, 1C, 1D).

For an evaluation of gingival health status, the gingiva must be dry. A steady stream of air from the compressed air syringe, held 1/2 inch from and directed at the gingival margin at an acute angle, dries the tissue quickly and effectively (Fig. 2).

Healthy gingiva has certain characteristics (Fig. 3): it is firm in consistency and closely adapted to the teeth; the gingival margin should be coronal to the cemento-enamel junction (CEJ); there is no loss of continuity (ulceration) of the tissues; and it does not bleed spontaneously on drying. The color of the gingiva is a less predictable indicator of gingival health. In health it has been described as pale pink but the color may vary depending on pigmentation and degree of vascularity, keratinization and thickness.² In both adolescents and adults, marginal

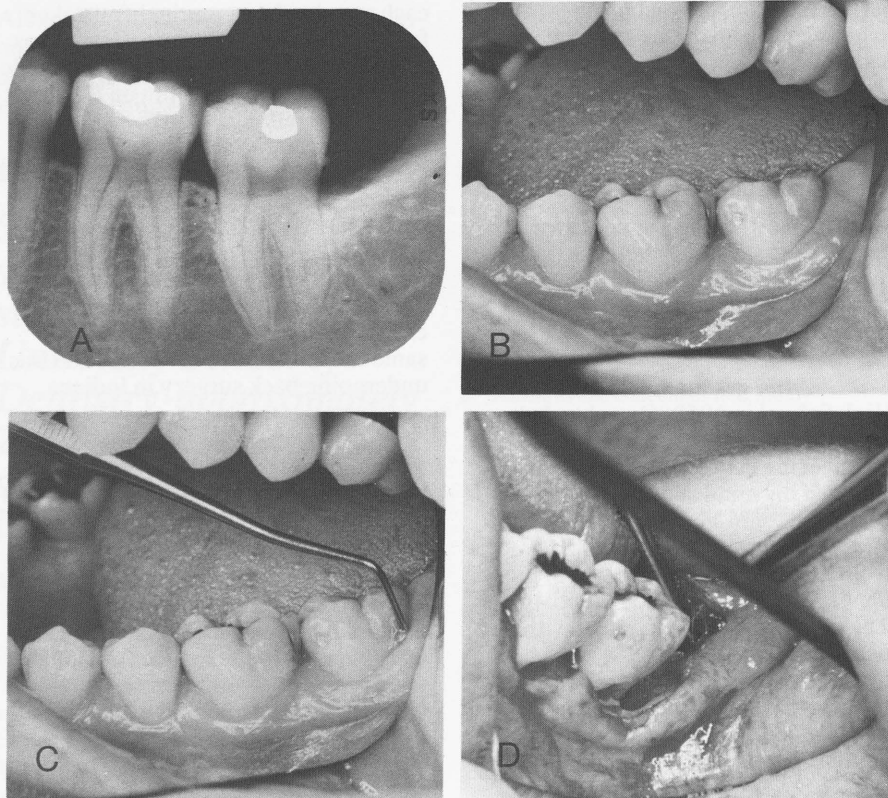


Figure 1.
A) Radiograph discloses calculus on distal surface of second molar with only slight evidence of bone loss.
B) Clinical photograph reveals normal-appearing gingiva.
C) Probing discloses deep pocket on distal surface.
D) Flap has been reflected, revealing deep osseous defect involving distal surface. The thick cortical plates are roentgenopaque and mask the loss of supporting bone.

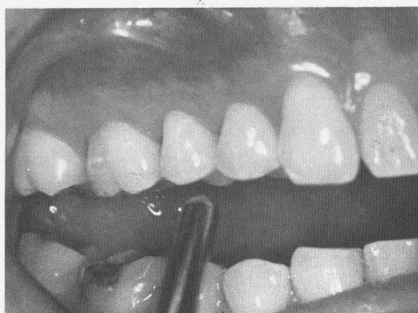


Figure 2.
Compressed air syringe used to dry gingiva.

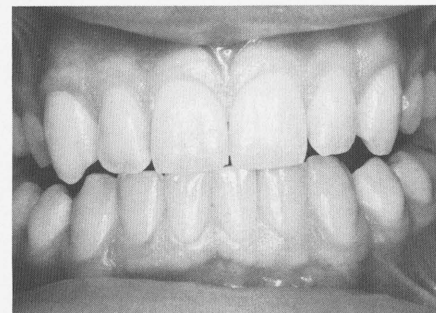


Figure 3.
Example of healthy gingiva.

inflammation often results in marked redness of the surface tissue, and this is a good indicator of disease. However, these color changes may be minimal in young individuals (Figs. 4A, 4B), while in older individuals the zone of active destruction is several millimeters below the surface, which has become fibrotic in nature and may have a deceptively normal appearance (Fig. 5).

Thus, although visual inspection of the gingiva is important, it can not by itself rule out the possibility of periodontitis. Examination of each tooth for loss of attachment (bone loss) and bleeding is necessary. In a comprehensive periodontal examination, probing is carried out at six sites on each tooth. This gives detailed information, but is time-consuming and the probing determinations on distal and lingual surfaces are more prone to error.

A number of examination systems have been proposed for evaluating gingival status, gingival and periodontal status, and the need for periodontal treatment.³⁻¹¹ Although valuable in epidemiologic studies and studies of preventive and treatment measures, many of these examinations are time-consuming and may require considerable training in their use. For screening purposes, the practitioner needs an examination that will show with a high degree of predictability whether a more thorough examination is required. Further, it must be such that it can be carried out in a reasonable time period (4-6 minutes).

In a previous study the author reported on a screening examination designed to determine when a patient required treatment for periodontal disease.⁷ The criteria used in that system are still valid and with one addition serve as a basis for the present procedure. In the previous study a form was used for recording the highest score (either gingival or periodontal) found for each sextant of the mouth. However, when the objective is to determine whether disease is present anywhere in the mouth, a numerical score is not necessary for each sextant. To simplify record-keeping, the necessary information can be recorded in a designated area of the general examination form.

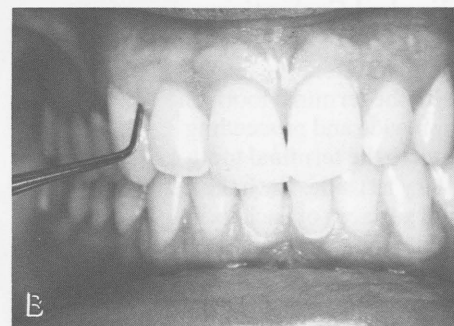
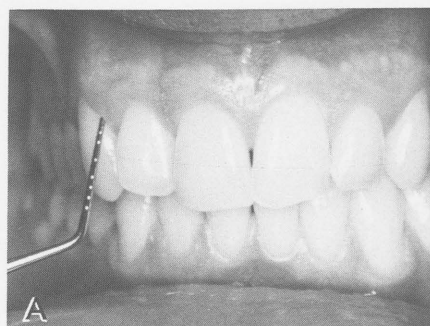


Figure 4.

A) Healthy-appearing gingiva on mesial of cuspid tooth.

B) Probing reveals depth of 10 mm in presence of deceptively healthy-appearing tissue.

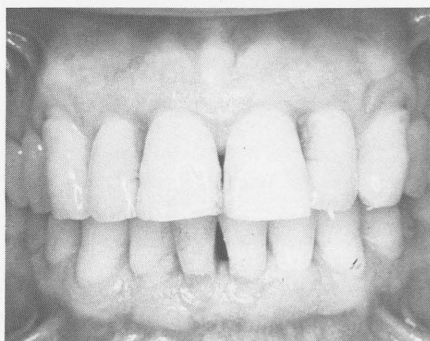


Figure 5.

Maxillary anterior surface tissue appears normal although at a more apical level.

However, probing depths of 4 to 9 mm are present around all maxillary incisors.

Gingival Evaluation

The examination is carried out in a systematic manner, beginning with the terminal tooth on the maxillary right side and proceeding around the arch to the terminal tooth on the maxillary left side. Both the facial and palatal surfaces of each tooth are dried and evaluated. The mandibular arch is evaluated next, beginning with the terminal tooth on the left side and proceeding around the arch. While drying the tissue during the evaluation, the examiner looks for the following: 1) enlargement of the papillary or marginal gingiva (Figs. 6A, 6B) or recession exposing the cemento-enamel junction; 2) marked deflection of the gingival margin from the tooth on the facial, palatal (lingual) or interproximal surfaces (Fig. 6C); 3) ulceration of surface tissue; 4) loss of continuity of any papilla from the facial to lingual aspect (Fig. 6D); and 5) obvious color changes or bleeding when air is directed at the gingival-tooth interface. Any of these findings, alone or in combination, anywhere in the mouth dictates the need for a more thorough examination and the indicated treatment. Even when the gingival evaluation discloses no evidence or only questionable evidence of gingival disease, a probing examination is necessary to rule out evidence of periodontitis (loss of bone).

Probing Technique

The word probe is defined thus by Webster's Unabridged Dictionary: "to search to the bottom; to investigate with great thoroughness." In periodontal probing, only light force (25 grams or less) is used. To assess periodontal status, the cemento-enamel junction (CEJ) is used as a fixed reference point. If exposed, it is easily found. If covered by gingiva, its position is determined by placing the tip of the probe on the crown and directing it apically until a slight change in surface contour is felt (Fig. 7A). If difficulty is experienced in finding the junction on the mesial surface, it is found on the facial surface and the probe tip is then stepped along the CEJ into the proximal area (Fig. 7B). When the CEJ is covered by a restoration or by calculus, clinical judgment should permit the operator to make a close approximation of its true position.

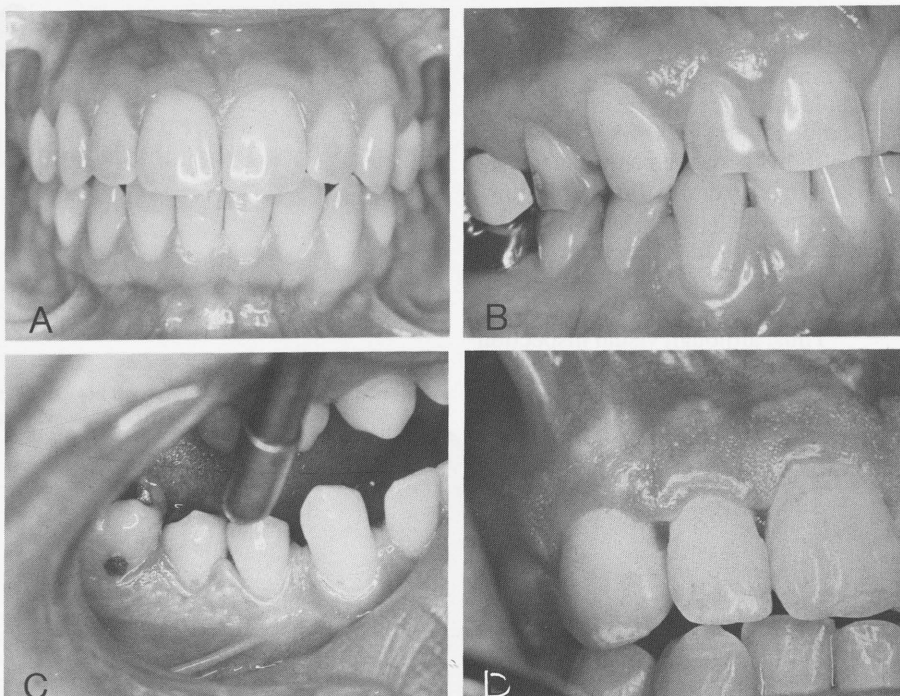


Figure 6.

Often overlooked signs of beginning disease.

- A) *Slight inflammatory enlargement of papillary tissue.*
- B) *Generalized inflammatory enlargement of papillary tissue with pronounced enlargement of marginal tissue on facial of cuspid tooth. Only minimal color changes were present.*
- C) *Compressed air deflecting the papillary tissue away from the teeth.*
- D) *Loss of continuity of the interproximal papillae between the central and lateral incisors and the lateral incisor and cuspid. The resulting soft tissue craters offer an ideal environment for bacterial growth and continued periodontal destruction.*

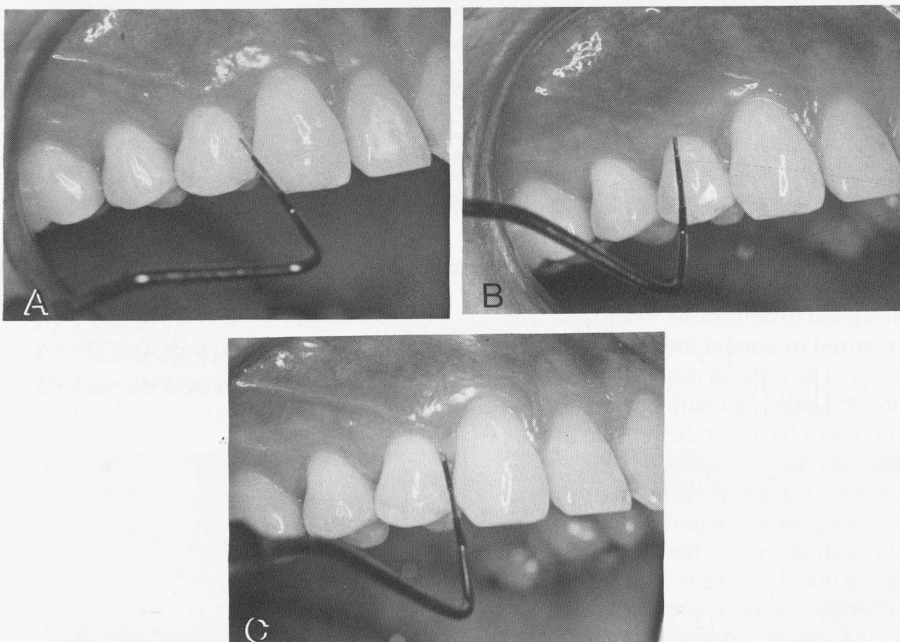


Figure 7.

- A) *Probe tip placed on the crown at an angle. It is then advanced apically until a slight change in contour is felt, indicating the CEJ.*
- B) *Probe tip at the CEJ on the facial aspect of the tooth.*
- C) *Probe directed in the long axis of the tooth while positioned as close to the contact point as possible.*

Once the true or approximate location of the junction is determined, the probe is directed in the long axis of the tooth and positioned as close to the contact point as possible. The probe is then gently advanced into the subgingival space until resistance is felt (Fig. 7C). If the resistance has a spongy feel or quality, the apical extent of the crevice or pocket has probably been encountered. If the resistance is hard and unyielding, the probe may have been stopped by subgingival calculus (Fig. 8A). When that occurs, the true depth can be determined by moving the probe laterally away from the tooth and seeing if it will slide apically over the obstruction (Fig. 8B).

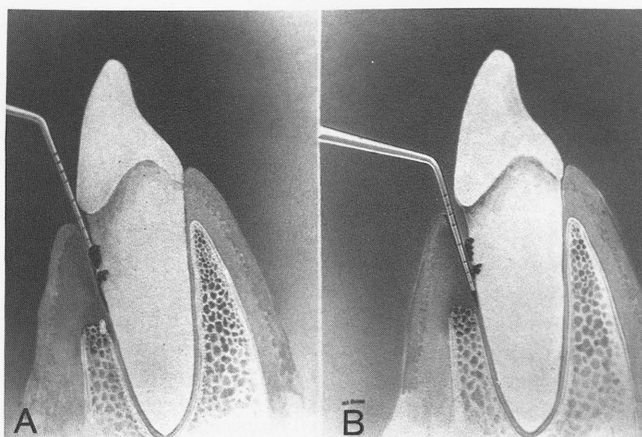


Figure 8.

A) Schematic drawing showing probe tip stopped by calculus deposits.

B) Probe moved laterally away from tooth, allowing it to reach the bottom of the pocket.

Probing Examination Criteria

In screening for bone loss, the mesial surface of each tooth present is probed to determine whether the probe extends apical to the CEJ and whether the probing results in bleeding. Bone loss has occurred when the probe extends apical to the CEJ (Figs. 9A, 9B); probing 3 to 6 mm apical to the CEJ denotes moderate bone loss (Fig. 10) while probing more than 6 mm apical to the CEJ denotes severe bone loss (Fig. 4B). Ready bleeding as the probe is introduced or withdrawn denotes the presence of active inflammation in the area (Fig. 9B).

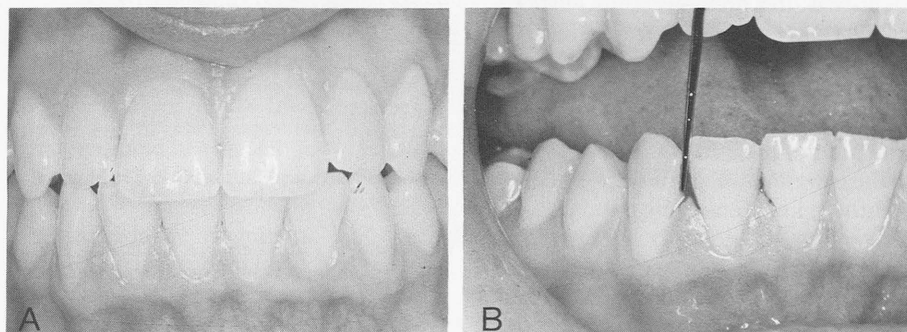


Figure 9.

A) Normal-appearing gingival tissue.

B) Probing depth was 3 mm apical to the CEJ, signifying beginning periodontitis. Probing resulted in ready bleeding.

Probing depth apical to the CEJ on any mesial surface points out the need for a comprehensive periodontal examination of the entire mouth. Bleeding on probing indicates the presence of active inflammation and further emphasizes the need for a comprehensive evaluation.

Discussion

The American Dental Association has recognized the moral, legal and professional obligations of the practitioner to diagnose gingival and periodontal disease, to inform patients of the presence of disease, and to either treat or refer them. To assist dentists in meeting these obligations and thus prevent possible litigation, the Association has prepared a manual outlining a comprehensive periodontal examination and suggesting steps in treatment.¹¹ The examination provides useful diagnostic

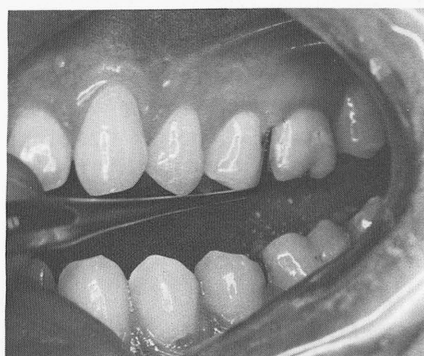


Figure 10.

Probe extending 6 mm apical to CEJ, denoting moderate bone loss.

information; but, like other comprehensive examinations, it is time-consuming and some practitioners will find this a deterrent to its routine use. A screening examination can help those individuals to determine when a comprehensive examination is mandatory.

The purpose of any screening examination, whether for high blood pressure, diabetes or periodontal disease, is to determine if a more thorough examination is needed. Because of the limited nature of screening procedures, they are not without error. Some patients requiring more extensive examination and treatment will not be identified, while some patients will be falsely identified. In a previous study,⁷ using criteria and procedures very similar to those proposed in this report, six general practitioners correctly identified 94% of patients requiring periodontal care after only three hours of instruction in the examination procedure. False positives, i.e. identifying patients who did not actually require care, ranged from 10 to 30% among the six general practitioners. Since the examiners had received only three hours of instruction, further experience with its use should result in fewer false positives. A false positive finding is a far less serious error than failing to diagnose existing disease.

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Notes from the Dean's Desk

Dr. H. William Gilmore

The new year is an especially productive time, and the School of Dentistry faculty, staff and students have certainly been busy. After Christmas vacation, students quickly settle into their schedules, keeping clinics, laboratories and lecture halls hopping, and faculty members are thoroughly involved in teaching their new classes. Looking ahead to spring break, the students get a brief respite and a chance to assess the pace that will be necessary to finish the academic year. Be assured that the School is a "beehive" of activity.

The year 1987 brings dramatic change and challenge for the dental profession. The critical issue is a shrinking applicant pool of students interested in a dental or dental auxiliary education. The American Association of Dental Schools predicts that the number of applicants to dental school will be reduced by 10% each year until 1994. If that is so, the number of students in the Indiana University predoctoral classes will be in the 50s—or fewer—until the 21st century. The number of qualified preprofessional students from Indiana will not change significantly until the turn of the century, creating much competition with other schools of dentistry and with academic units within our universities. Science, computer technology, business and engineering all show enrollment increases. Standards for evaluating applicants, mainly grade point averages and Dental Admission Test scores, should not be lowered since weaker students could not master the dental curriculum.

The American Dental Association and the AADS have combined their energies to create a recruiting strategy called SELECT. Every state in the nation has been invited to participate and we are proud that the School of Dentistry and the Indiana Dental Association will work together on this project. In each state a chief coordinator will be named who will solicit recruitment partners from the profession, schools or civic groups. These partners will receive training and promotional

materials to interest students in dental careers. Professionally produced videotapes, pamphlets, exhibits and on-site recruitment programs will also be used to secure our share of students. Work on gifted student programs is planned, but the yield on these students will not occur until four to 10 years after the initial contacts. The incentives in dentistry in the next century depend heavily upon the effectiveness of the SELECT network.

Strong focus on minority student recruitment is especially appropriate due to the growth of black and Latin populations in all parts of the country. The percentage of minority students and health care providers continues to drop, causing more of the population to lack services. In the long run, new legislative programs will be needed for minority student loans and scholarships. Assistance in planning will also be urged to help graduates locate offices in areas needing dental care services. Funding mechanisms targeted at many types of patients, including but not restricted to indigent patients, will be necessary. The new tax law following Gramm-Rudman legislation will place more funds (and the need for different taxation) at state and community levels. Developments are being monitored and professional leaders are working to design new dental care programs fostered by societal changes. Because of this, our relationship with the government will become increasingly important.

The "Dean's Hour" telecasts are gaining in popularity. The faculty's goal is to present information on the latest developments in research relevant to dental practice in ways that can be quickly put to use by dentists and their auxiliaries. Future telecasts will feature panel discussions on issues of the health care industry and the attendant legislative needs. Dentists today do not have the luxury of being complacent about the changing health care environment.

All alumni would marvel at the student clinical productivity in our school. The patient waiting list is small and all third and fourth year students have 12 to 16 assigned patients. New incentives are being considered for students in the last two years of the predoctoral program to encourage productivity. The Scholarship and Loan Committee has been challenged to design a reward system for productive students. Monies to be applied toward tuition or cash awards could be given to recognize high achievement and those students who provide care above and beyond their regular clinical assignments. Foundation funds would be marked for scholarships, while the clinical growth incentives add to the competence of new dentists.

The geriatric population will significantly increase and is predicted to have new needs for dental services. Although many older people are edentulous, a survey by the National Institute of Dental Research reported that adults today have more teeth and less periodontal disease than had been predicted on the basis of empirical studies. Associate Dean James Roche chairs a committee on geriatric dentistry that is evaluating methods and special circumstances in treatment of the older patient. Curricular innovation and community services will be evaluated by the faculty in order to train students to work in specialized practice settings. Attempts will also be made to market dental services for older patients.

Also looking to the future is the Temporomandibular Joint (TMJ) planning committee. New treatment methods, instrumentation and a team approach with physicians are being studied by faculty and practicing dentists. The goal is to make a diagnostic and treatment center available for patients with TMJ dysfunction and myofascial pain. These projects are consistent with our faculty's ongoing program of research in various disciplines aimed at enhancing our resources for providing oral health services to the public.

Program Highlights

Karen Yoder Honored By Dental Hygiene Alumni

The Indiana Dental Hygiene Association recognized Karen S. Yoder as the 1986 Distinguished Alumnus on Dental Hygiene Alumni Day in October.

Dr. Ralph G. Schimmele presented the award to Karen, a 1962 graduate of the IU School of Dentistry dental hygiene program. She also received from IU a B.S. in Public Health Dental Hygiene in 1963 and an M.S.D. in 1983. A consultant in Community Dental Health at the Indiana State Board of Health and for Region V Head Start Programs, Karen is on the faculty in the Department of Dental Auxiliary Education at Indiana University-Purdue University at Fort Wayne.

Karen is a past president of the IDHA and is currently secretary/treasurer of the IU School of Dentistry Alumni Association. One of her many public service contributions was her initiation of a dental screening and treatment program for elementary schools in Northern Tanzania, accomplished

through Kilimanjaro Christian Medical Centre.

Speakers on Hygiene Alumni Day included Ms. Gail Williamson, head of the Alumni Day Committee; Dean H. William Gilmore; Chancellor Emeritus Maynard K. Hine; and Dr. Charles E. Smith, IUSD Alumni Association president.

Ronald Hamaker, M.D., presented a continuing education program on "Management of the Head and Neck Cancer Patient."

An unusual program feature was the presentation of a painting of A. Rebekah Fisk, first hygiene instructor at IU, by Ms. Jewell Arthur, IDHA president. Ms. Arthur happened upon the portrait while browsing in antique stores in southern Indiana. The portrait was painted years ago by Dr. Rolando DeCastro, IUSD director of dental art and illustrations. She made a gift of the portrait to Ms. Evelyn R. Oldsen, for the IUSD dental hygiene department, where it now hangs.



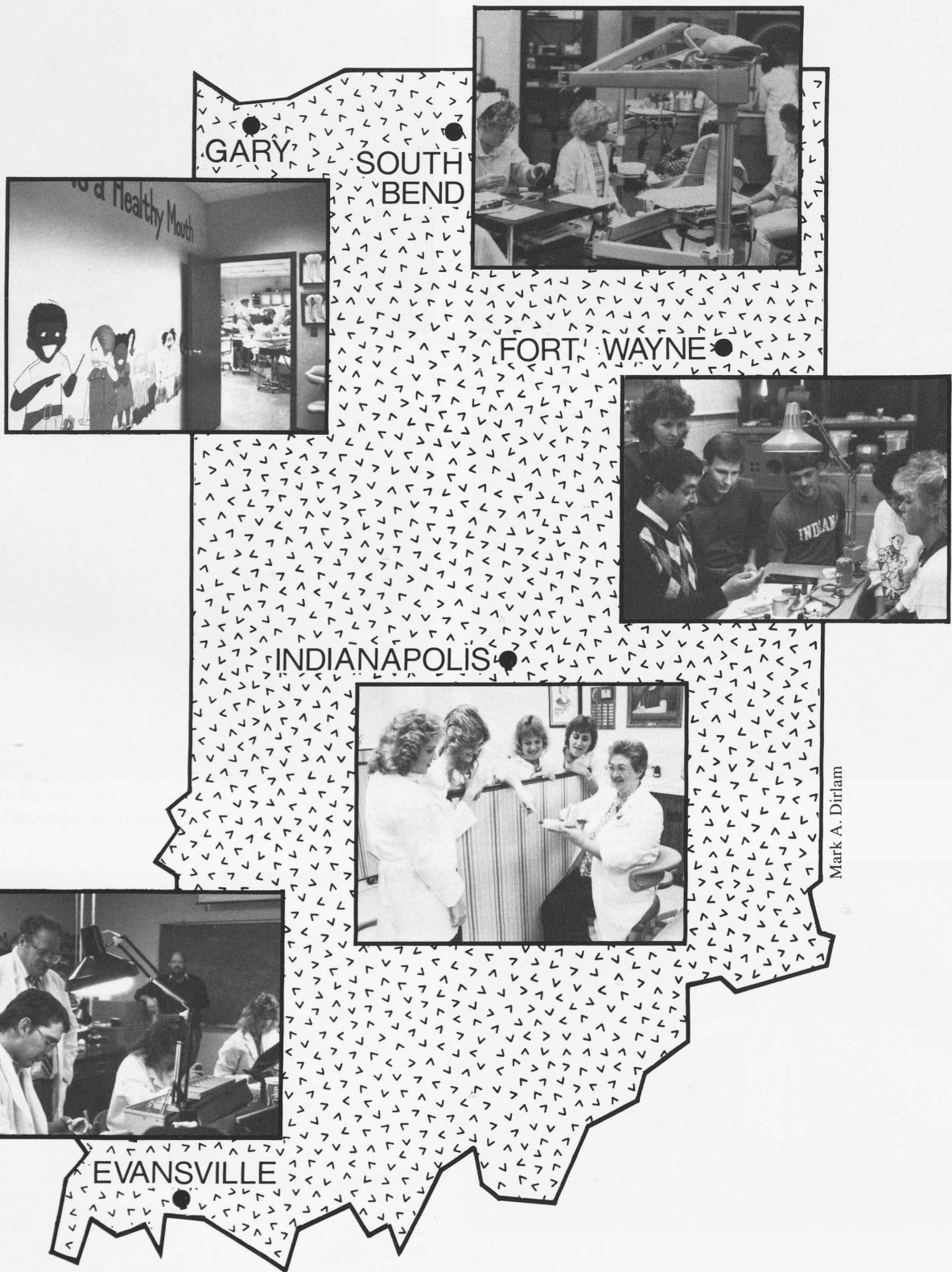
Photos by Rick Baughn

Karen S. Yoder



Ms. Jewell Arthur (left) with Ms. Evelyn Oldsen and portrait of A. Rebekah Fisk





Mark A. Dirlam

DAE Around Indiana: People Behind the By-Lines



In the fall of 1950, in Indianapolis, nine students of dental hygiene and one instructor, Miss A. Rebekah Fisk, put dental auxiliary education into motion in Indiana. In the fall of 1986, scores of faculty members (full-time and part-time) and 300 students in five cities throughout the state keep dental auxiliary education in high gear.

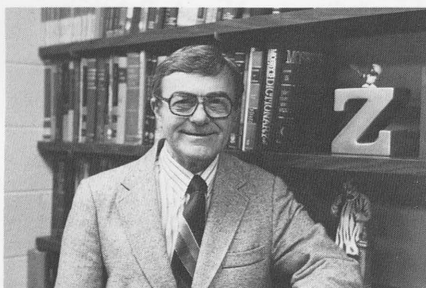
After those pioneering hygiene students got their start 37 years ago, programs in dental assisting and dental technology were developed at various locations in Indiana. Today, hygiene and assisting programs are offered at Indiana University-Purdue University at Fort Wayne; Indiana University Northwest (Gary); Indiana University at South Bend; Indiana University-Purdue University at Indianapolis; and the University of Southern Indiana (Evansville). The Fort Wayne and Evansville campuses also have programs in dental technology.

These programs in Indiana have prepared more than 3,700 students for

a variety of careers in dental health care. As editor of the *IUSD Alumni Bulletin*, Dr. Ralph W. Phillips recognized early the significance of dental auxiliary education and the need to keep the alumni informed of its progress at the School of Dentistry. In January 1953 he provided space in the *Bulletin* for Miss Fisk to write a regular column entitled "Dental Hygiene." The column, like the program itself, blossomed over time, and in recent years has included by-lines for all directors of dental auxiliary education and supervisors of hygiene, assisting and technology around the state.

The editors of the *Bulletin* salute these faculty members for providing the news that has helped the alumni stay tuned in to DAE activities in Indiana by recognizing each for his or her effort. Most of our readers are well acquainted with the names of some of the writers, such as Professor Gloria Huxoll, who has faithfully been passing along items of interest about the dental hygiene program at Ft. Wayne and its graduates for 20 years. Others, such as Dr. Robert Moon, newly appointed director of dental auxiliary education at IU-Northwest, are being introduced with this issue. Biographical sketches on the contributors follow:

Fort Wayne



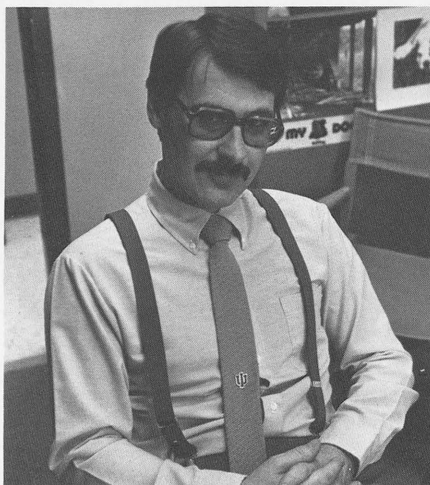
Dr. Peter T. Zonakis

Dr. Peter T. Zonakis, a DDS graduate ('61) from Bloomington, had been practicing in Hagerstown for 16 years when the position of director of dental auxiliary education on the Fort Wayne campus opened up. "I was looking for a different type of challenge," he says. Dr. Zonakis was appointed in August 1977 and the *Bulletin* ran his first by-line in the Spring 1978 issue.

He is proud of the program and credits a dedicated faculty for much of the success. "All three programs always

score very high on national exams," he says. "We also receive good support from the campus administration, and local dental community involvement is a strong plus."

Dr. Zonakis has served as president of the Eastern Indiana Dental Society, trustee of the Indiana Dental Association and on the board of the IUSD Alumni Association. He has been married to his wife, Delores, for 31 years. They have a son, Steven, 22, a married daughter, Lee Anne, 24, and two grandchildren.



Prof. Charles A. Champion

Charles A. Champion, supervisor of dental laboratory technology and assistant professor of DAE, applied for his position on the faculty from a U.S. Army post in West Germany. He was interviewed for the job two weeks after discharge, on the same day the first class graduated from the laboratory technology program in 1974. He was appointed and has been supervisor for the past five years.

Originally from Oak Lawn, Illinois, Prof. Champion has earned associate and baccalaureate degrees from Southern Illinois University, and a master's degree from Indiana University. He was attracted to teaching for a variety of reasons: "A desire not to limit my career and professional options. Also, formal education for dental technicians was in its infancy when I was a student and my instructors were all working technicians with no formal educational background. I learned a great deal from these people, but I believe I could have learned more

if they had been as thoroughly trained in teacher education as they were as technicians." He feels in part responsible for the development and growth of the DLT program at Fort Wayne. "The program currently enjoys a good national reputation based upon student performance on the Recognized Graduate Examination and upon our students' professional success."

Prof. Champion has been writing for the *Bulletin* since Fall 1977. He and wife Shirley have a four-year-old daughter, Meredith Paige.



Prof. Elaine S. Foley

A newcomer to the pages of the *Bulletin*, but not to the Fort Wayne program is Elaine S. Foley, assistant professor of DAE who became supervisor of dental hygiene on January 1. A native of Connersville and herself a graduate of the Fort Wayne hygiene program, Prof. Foley worked for 11 years in private practice in the Chicago area before returning to Fort Wayne to complete B.S. and M.S. degrees. She was hired as an instructor 6½ years ago and says that she derives the most satisfaction from her career from listening to students explain concepts to patients or other students that they have learned from her. She balances a busy professional life by swimming, golfing and cheering on the IU basketball team with her husband Bill.

"I admired and respected Miss A. Rebekah Fisk so much that I thought this was an opportunity to do for others what she did for me." That's what Gloria H. Huxoll, assistant professor and former supervisor of the dental hygiene program remembers thinking when Dr. Maynard K. Hine, then dean of the IU School of Dentistry, asked her to supervise the newly developed hygiene pro-



Prof. Gloria H. Huxoll

gram at Fort Wayne. She accepted, and served with excellence in that capacity for 22½ years until her retirement on January 1.

A lifelong resident of Fort Wayne who shares a home with daughter Kelley, Gloria is one of seven students to graduate from Miss Fisk's first hygiene class at Indiana University in 1952. She completed a B.S. degree in 1974. Prof. Huxoll continues to teach in the clinic part-time. "I love the students," she says, "especially taking an enthusiastic pre-dental hygiene student and working with her until the end—sharing her ups and downs, being able to assist her in achieving her goals."

Prof. Huxoll's first column in the *Bulletin* appeared in 1966, and she has been a steadfast contributor since then. The rapport she has with graduates is nothing short of amazing—over the years she has shared news on hundreds of alumnae. "I hear from them in all parts of the U.S. and in foreign countries," she says. "I know they are proud of their profession and Indiana University and that's what makes me proud of them. I hope I never lose track of any of them."

Rosemary M. Kovara, supervisor of dental assisting and assistant professor of DAE, was studying at Ball State University in the '70s and heading for a career as a physical education teacher when she hit a snag: PE majors had to learn to swim, and she couldn't overcome a fear of water. Abandoning the major but not her interest in teaching, Prof. Kovara turned her attention to her mother's profession—dental assisting. Having grown up in Argos, Indiana, she bounced around the state for a few years, enriching her education along the way by earning a certificate in dental

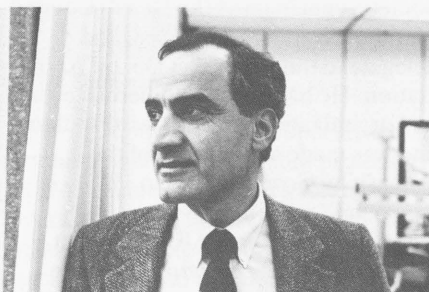


Prof. Rosemary M. Kovara

assisting from IU-South Bend, a B.S. degree from IUPUI (Indianapolis), and an M.S. from IU-PU at Fort Wayne.

Prof. Kovara was on the DAE faculty at South Bend when the supervisor's position at Fort Wayne became available. She was appointed in 1978 and has found her career as teacher and administrator a "constant energizer." She has served as president of the Indiana Dental Assistants Association, as Sixth District trustee of the American Dental Assistants Association, and is currently vice-president of the ADAA. She's been writing for the *Bulletin* for eight years (under her maiden name, Monehan, before she married husband Tod).

South Bend



Dr. Shant Markarian

Dr. Shant Markarian, director and associate professor of DAE since 1980, came to South Bend after years of dividing his time between a practice in Massachusetts and a faculty position in oral health services at Tufts University School of Dental Medicine. Back east he maintained two objectives: to further his education and to make a transition

to a full-time career in academics. At South Bend he has been able to do both: in addition to his job as director, Dr. Markarian is working on a graduate degree in health systems administration in the School of Public and Environmental Affairs. (He holds an A.B. from Brown University and a D.D.S. from the University of Pennsylvania.)

From Providence, Rhode Island, originally, Dr. Markarian says that his mother, who taught in the U.S. and also in Armenia before immigrating in 1914, inspired him to pursue teaching. At Indiana University he finds satisfaction in being a part of "continuous development—and from working with a dedicated faculty and staff." He points out that, in addition to many South Bend alumnae who are engaged in rewarding careers as assistants and hygienists, four are now graduates of dental school, two chair dental hygiene programs in other states, one heads the orthodontics division of a dental laboratory, and others have branched out into pharmaceutical and dental product sales. He and wife Diane have a daughter, Kris, and sons Shant, Jr., and Craig.



Prof. Barbara A. Pacionek (center)

Acting on a tip from Lois Van Meter, head of dental assisting at Ferris State College, that IU-South Bend was searching for a dental assisting instructor, Barbara A. Pacionek applied and was appointed six years ago. In 1983 she was promoted to program supervisor and has been writing for the *Bulletin* ever since.

Prof. Pacionek spent her childhood in various places in Michigan: Bay City, St. Charles, Mt. Pleasant, and earned her A.S. and B.S. degrees at Ferris State. She says that personal satisfaction in teaching goes very deep and is derived from working with "young, eager, enthusiastic people." She also cites the impact that the DAE program

at South Bend has had on the community. "We reach out where we are needed," she says, "by providing services such as oral hygiene instruction to the mentally retarded at Logan Industries."

The daughter of a retired soil conservationist, Prof. Pasioneck loves the outdoors and such robust activities as downhill and cross-country skiing, sailing, hiking and soccer.



Prof. Nanci G. Yokom

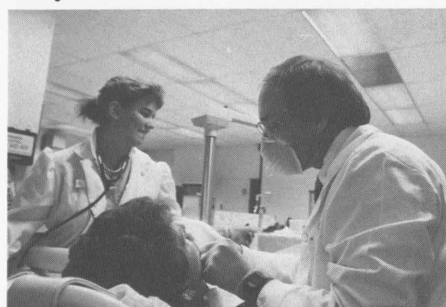
Summing up her teaching career as "an extension of dental practice and an opportunity to work and learn at the same time," Nanci G. Yokom, supervisor of dental hygiene and assistant professor of DAE, has been a part of the South Bend action for eight years.

A native of Racine, Wisconsin, Prof. Yokom earned a dental hygiene certificate from Marquette University before travels with husband Jerry took her to Michigan, Arizona and Minnesota. She logged six years in private practice and time as a teacher at Ferris State College before settling down in South Bend in 1973. With no openings on the DAE faculty at the time, Prof. Yokom went to work on an undergraduate degree while keeping an eye on the program. She was eventually hired, promoted to supervisor in 1979 and by 1980 had completed a graduate degree.

"I feel I've been able to translate part of my excellent education from Marquette to others," she says. "Also, we have one of the best programs here and I have been a part of that development."

Prof. Yokom enjoys community involvement and has been active in the United Way campaign this year. She and her husband have a daughter, Meghan.

Gary



Dr. Robert A. Moon in clinic

Dr. Robert A. Moon stepped into the academic arena at IU-Northwest for a second time in 1985. He is the newly appointed director of dental auxiliary education, replacing Dr. Edward Farrell, who retired last year. In his new position Dr. Moon draws in part on past experience as a teacher at IU-N from 1976 to 1980. He defines his role as director as one who provides a suitable learning environment to students for the best education possible, and is also counselor and friend.

After receiving two degrees from IU, B.S. ('55) and D.D.S. ('58), Dr. Moon entered general practice in Hobart in 1961. He lives in Valparaiso with his wife, Donna. The family includes sons Robert, Mark, David, Kevin, and Jeffrey (another son, Gregory, is deceased), daughter Susan, and a grandson, Michael. Dr. Moon's background is rich in professional and community activities. He has served as president of the Indiana Dental Association and the Northwest Indiana Dental Society, chairman of the Dean's Council for the Pursuit of Excellence, and delegate to the American Dental Association. He has headed numerous events and organizations in northwest Indiana and was made a Sagamore of the Wabash by Governor Orr in 1981.

He says the DAE program at IU-N is definitely growing. "We are planning on a totally new facility in the next five years. IU-N Chancellor Peggy Elliott is enthusiastic about our program. We hope to be very active in dental health in the city of Gary."

Kathleen J. Hinshaw's career in dentistry has offered an interesting mix of dental assisting and dental hygiene, as well as private practice and academ-

ics. Starting out at age 15 as a chair-side assistant, she worked six years in private practice before pursuing a dental hygiene degree. She graduated with IU-N's first hygiene class in 1977 and received CDA certification the same year. After graduation she returned to



Prof. Kathleen J. Hinshaw

the program as a part-time clinical instructor while continuing to assist chairside and perform as a hygienist in private practice. She was appointed supervisor of dental assisting three years ago, and still works in private practice for Dr. Kim Kessler in Crown Point. She completed a bachelor's degree from IU in 1982 and plans to finish a master's next year.

Prof. Hinshaw says she enjoys her role at IU-N tremendously and finds interacting with students to be the best part of the job. "Their enthusiasm and eagerness to learn bring a lot of warmth to the program." She lives in Crown Point with husband Dave and four-year-old son Danny. One of her sisters is Annette Williamson, a fourth year dental student at IUSD.



Prof. Sharon B. Kantor

Sharon B. Kantor, supervisor of dental hygiene and assistant professor of DAE, brings to her position a "team" background. After earning certificates in dental assisting (University of Minnesota), hygiene (Northwestern University), and a bachelor's degree from Wichita State University, she was appointed DAU and TEAM Department

supervisor at Northwestern University Dental School. There, in addition to teaching students of hygiene and assisting, she taught dental students how to work with auxiliaries. She made the move to IU-N in 1983 as supervisor of dental assisting and in 1984 as supervisor of dental hygiene.

In 1981 Prof. Kantor completed a master's degree from Loyola University and is currently a Ph.D. candidate at Loyola with plans to finish the dissertation in 1987.

Prof. Kantor looked to teaching as a way to make a greater impact in dentistry than could be done in private practice, and multi-faceted teaching responsibilities at Northwestern helped her make a mark. "As I continue my professional development and teaching with Indiana University," she says, "I hope to be able to meet my needs and rise to the aspirations that my profession and my students have for me." Prof. Kantor grew up in Calumet City and currently resides in Chicago.

Evansville



Dr. Gordon E. Kelley

Dr. Gordon E. Kelley, chairman and professor, division of allied health at the University of Southern Indiana, has been directing the DAE program since it began in 1971. Before that he was a faculty member in preventive dentistry at the IU School of Dentistry, having earned B.S. ('57), D.D.S. ('64) and M.S.D. ('67) degrees from IU. He says that personal satisfaction in his job comes from observing students as they mature into effective and successful members of the dental team.

Dr. Kelley, who comes from Fairland in Shelby County, spent 28 years in the U.S. Army Reserve, including some active duty service. He is

one of few army dentists to have commanded a reserve general hospital (the 337th from 1978 to 1981).

While chairing the division of allied health keeps Dr. Kelley on the run during the week, he devotes much of his weekend to the radio—not listening, but announcing. On Saturdays he produces, directs and announces a program on WSWI that rebroadcasts old radio programs. On Sunday nights he is volunteer announcer on local PBS radio (WNIN-FM), playing records and tapes, and operating the station by himself. He also produces part of a yearly 10-day public television station auction for WNIN-TV.

Dr. Kelley thinks that the move to Evansville turned out very well for him and his family. He and wife Gail have four daughters: Elizabeth, 24, identical twins Priscilla and Pamela, 22, and Marcella, 20.



Prof. Deborah Henry

Deborah Henry, supervisor of dental hygiene and assistant professor of DAE, has contributed a total of 10 years of service to the program in Evansville, her hometown. Prof. Henry's background also includes private practice experience. Promotion to supervisor came in 1978 and her by-line in the *Bulletin* began to appear a year later (her first columns were written under the name Lux). A.S. and B.S. degrees were earned from Indiana State University, Evansville (now University of Southern Indiana), and she was awarded a Master of Education from IUS in Terre Haute in 1985. Prof. Henry is married to Dr. Richard Henry, an

Evansville oral surgeon and 1960 IUSD graduate, and she has an eight-year-old son, Jace T. Lux.



Prof. Paul Robinson and student

When the Evansville program expanded to include dental laboratory technology in 1976, Paul Robinson was appointed supervisor and has been handling the job ever since. Before settling in at Evansville, Prof. Robinson spent 20 years in the U.S. Navy and was a chief dental prosthetics technician. He earned a B.S. degree from Southern Illinois University in 1976.



Ms. Suzanne Schnacke

Originally from Evansville, Suzanne Schnacke was teaching in Lexington, Kentucky, but was hoping to return to her hometown when she learned of an opening on the Evansville campus. She was hired 13 years ago and became supervisor of dental assisting in 1976. Ms. Schnacke had spent 10 years in private practice before moving on to her teaching career. She has an A.S. degree from Indiana State University, Evansville.

Indianapolis

In addition to Dr. Robert Moon, of Gary, the *Bulletin* introduces another new director of dental auxiliary education with this issue: Dr. Sybil S. Niemann, an assistant professor and graduate of IUSD (1966) who joined the faculty after receiving a certificate in oral pathology in 1980.



Dr. Sybil S. Niemann

Dr. Niemann comes from Patoka in Gibson county, the daughter of two public school teachers. After dental school she practiced in Indianapolis and then taught at the University of Arkansas School of Dental Hygiene, where she was involved in many challenges in continuing education, extramural rotations and interdisciplinary patient care. After returning to Indianapolis, she was a member of the oral pathology faculty until 1985, when Dean H. William Gilmore reorganized the dental assistant and hygiene programs into one unit and named Dr. Niemann as director. (The DAE program was placed within the Department of Dental Practice Administration, chaired by Dr. Donald Tharp.)

Of her job thus far, Dr. Niemann says: "The biggest challenge has been in the areas of coordination and communication to integrate the auxiliary programs into the daily operation of the rest of the dental school. I enjoy exploring new avenues for interdepartmental cooperation, hopefully to open new opportunities for faculty development and for increased exposure of students to the team concept of dental health care." She hopes to have at least one in-service training program for faculty members each year and two have already been presented: use of the long cone paralleling technique, by Prof. Gail Williamson of dental radiology; and pit and fissure sealants, by Dr. Hala Henderson of pediatric dentistry.

Dr. Niemann lives in Speedway and is the mother of Samuel J., who studies at IU-Bloomington, and John E., a student at Oakland City College. One of her brothers is Dr. Fred V. Sanders, an IUSD graduate of 1962.



Prof. Evelyn R. Oldsen

Evelyn R. Oldsen, director of dental hygiene and associate professor of DAE, came to Indiana University after having been clinic coordinator of the dental hygiene program at the Medical College of Virginia and a faculty member at the University of Iowa College of Dentistry. She was appointed as director 12 years ago and has been a frequent contributor to the *Bulletin*. Observing students develop their professional and personal skills has given Prof. Oldsen much satisfaction over the years. She is originally from Rockford, Iowa, and earned B.A. and M.S. degrees from the University of Iowa.



Prof. Pauline R. Spencer

Pauline R. Spencer was on the faculty of the University of North Carolina in 1981 when she was appointed director of dental assisting at Indianapolis, a post left vacant when Professor Marjorie Carr retired. Like her faculty colleague, Evelyn Oldsen, she has enjoyed working with auxiliary students and watching their development. Prof. Spencer comes from Knoxville, Iowa, and received a B.S. degree from the University of North Carolina. She shares her Indianapolis home with her mother, Retta Spencer.

Indianapolis photos by Mike Halloran.

Story and regional campus photos by Susan Crum.

Student Sketches

Gerald C. Leake, Jr.

Like his classmates, Gerald C. (Gary) Leake, Jr. lumbers along dental school corridors, under the weight of instrument cases, denture flasks, and other lab and clinical cargo. But at 1,500 feet above ground, Gary is free of such cumbersome ties, nimbly spinning, rolling, and looping a path across the skies in his home-built single engine aerobatic biplane. He's been a sky acrobat since he was a teenager, practicing a hobby that often turns his world upside-down.

Gary is a fourth year student from Bellevue, Washington, who spent three years at Western Washington University and five in the Navy before coming to Indiana University. At age seven he began building radio-controlled model planes with his father, Gerald, Sr., a senior engineer for the Boeing Company. By the time Gary was 14 he and his dad had geared up for the challenge of assembling a full-scale two-seater. Their aerobatically designed Steen Skybolt was built from scratch, not from a kit, and took six years of labor. The price tag, including plans,

was \$13,500 (similar factory-built models were going for \$80,000). "What you lose in building your own is time," Gary says.

The Skybolt's fuselage and tail are steel tubing, the wings are wood, and all outside parts are covered in a sailcloth-type fabric that has been painted. Compared to most factory-built commercial aircraft, aerobatic planes use beefier materials and the parts are closer together to withstand the punishing maneuvers. Gary's plane can endure + or -12 g's (12 times the force of gravity) compared to roughly +3 to -1 g's for most commercial planes, in which aerobatics are prohibited. "You'd pull the wings off trying to get through the first maneuver," Gary says.

Before taking to the skies in their aircraft, the Leakes, who received 10 hours of aerobatic instruction from an airshow pilot, followed Federal Aviation Administration regulations for home-built planes. An airworthiness certificate was awarded only after the

FAA examined the plane at various stages of construction and required the Leakes to log the first 25 hours of flight out of a remote airfield. They have now been flying it for eight years.

Gary began executing aerobatics soon after receiving his private license at age 17. In Gary's plane one flies Red Baron style: in leather helmet and goggles, and with head *outside* the aircraft. He enjoys taking friends up for a spin—literally—and depending on their tolerance for high altitude fancy dancing, he may try a hammerhead, a Cuban 8, or an avalanche. But he takes care not to frighten a newcomer—they occupy the front seat so that he can keep a watchful eye. "First, I pull a sustained 2 g's, which means if you weigh 150 pounds, you *feel* like you weigh 300," he explains. "Then I do a loop (a giant ferris-wheel circle) which pulls 3 g's as we pass into the vertical position. At 3 g's you feel squished in your seat, face sagging." Gary stays tuned in to his passengers by constantly talking to them over an intercom to make sure they're feeling O.K. and enjoying the ride. "Next I roll the plane as fast as it will go, which gives a momentary weightless feeling. Finally, a slow roll, the real test. As you invert, your body hangs from the straps and you feel *very* upside-down, the blood goes to the head. If a passenger is OK after that, he or she is ready for almost anything because most other maneuvers are just variations of loops and rolls."

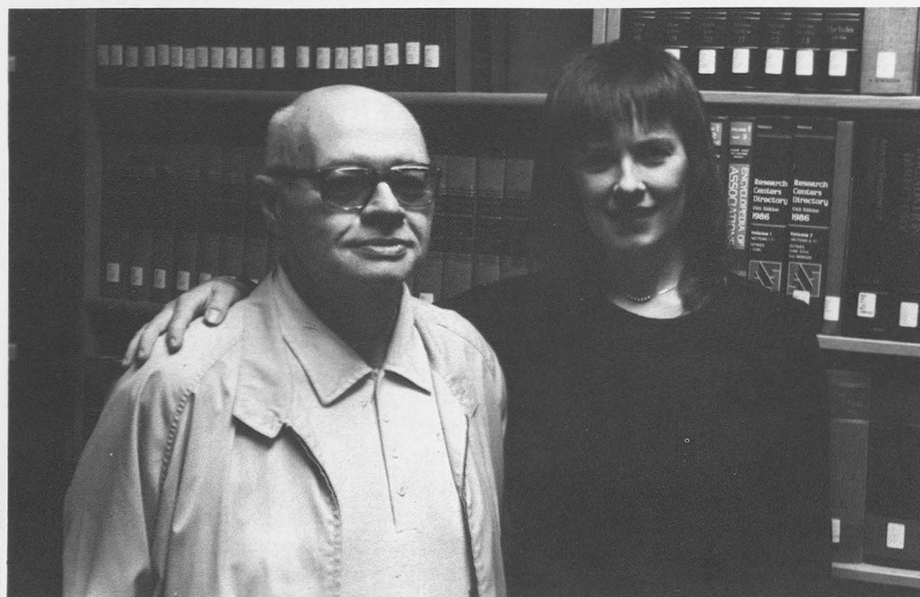
Why does he do it? "For the fun of it," Gary says. "And, sometimes, when things click and I feel like part of the plane, there is a great, exhilarating sense of freedom." Gary has logged about 350 pilot hours, 250 of them aerobatically. He flies with a parachute, usually at 1,500-2,000 feet, far below the normal 35,000-foot altitude for commercial planes.

Gary, who has wanted to be a dentist since he was seven, will begin a U.S. Air Force general practice residency program in Tucson, Arizona, after graduating this spring. Aerobatic flying will remain a hobby. Meanwhile, he has found a new friend with an aerobatic plane to keep him from spending all of his time in Indiana with feet on the ground. Dental school may have parted him temporarily from his plane, but not from the skies.



Gary and home-built single-engine plane

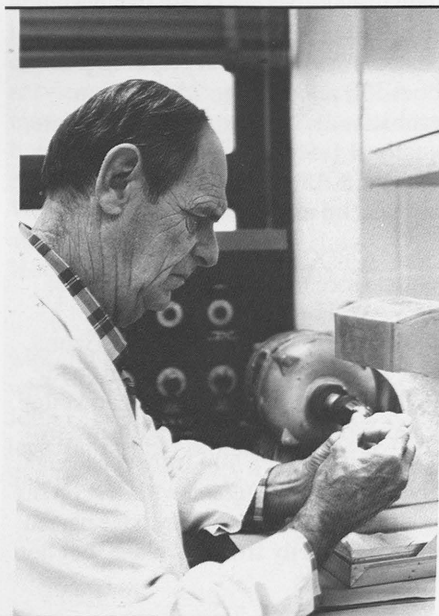
With the Classes...



Mike Halloran

Dr. Joe G. White (Class of 1946), a retired associate professor of complete denture whose faculty career spanned 38 years, made a surprise visit to the school last fall to say goodbye to his many friends as he and wife Betsy headed for a new home in Florida: 500 Park Blvd. S., Unit G3, Venice, FL 33595. He is shown with Ms.

Susan Crum, managing editor of the IUSD Alumni Bulletin and former secretary in complete denture who worked with Dr. White in that department for seven years. Dr. White retired last spring after devoting a full career of service to the University as a classroom and clinical teacher in prosthodontics.



Susan Crum

Mr. Robert T. Richmond, certified dental technician and former supervisor of the complete denture student laboratory, died in October at the age of 62 after a brief illness. Mr. Richmond retired in February, 1986, after 24 years of service to the School of Dentistry. He received nearly a dozen "Best Technician" awards over the years at the annual Senior Banquets.

A Response to the New Series IUSD Alumni Bulletin. Christopher "Christy" Hamlin (DDS '76) says that it has "great appeal and certainly makes a graduate proud." Bert W. Gilbert (DDS '48) calls it a "gem." Vickie Essmacher (RDH '85) reports that she was "prompted to sit down and read it— from cover to cover." We have received warm letters and words of encouragement from Indiana University President John W. Ryan, Gerald L. Bepko, IU Vice President (Indianapolis), and Arthur A. Dugoni, D.D.S., dean of the School of Dentistry, University of the Pacific, San Francisco. And many others, like A.C. Yoder, Jr. (DDS '39), have extended a simple "congratulations on the first edition." To all of our readers who took the time to write, phone, or stop by the office to share their comments on the new series *Bulletin*, the editors extend a heartfelt thank-you.

Graduates Interviewed On Implant Dentistry

Four LaPorte dentists, all graduates of the School of Dentistry, were recently featured in an article in the *LaPorte Herald Argus* on permanent titanium alloy implants. According to feature writer Marcia Porter, Dr. Dan Fridh ('75) first became interested in tooth transplant techniques during his residency training in Biloxi, Mississippi. He and Dr. Bryan Snook ('76), an oral surgeon trained at Indiana, are two dentists in LaPorte who place the implants, which gradually fuse with existing bone. The implants provide a permanent base for artificial teeth. Dr. Douglas Barton ('69, MSD '71), a pediatric dentist, and Dr. David Porter ('79) were also pictured in the article and expressed opinions on implant dentistry.



Dr. Jack D. Carr, 73, Dies; Retired Professor

Dr. Jack D. Carr, retired professor and nationally recognized dental historian and photographer, died December 31, 1986, at the age of 73.

Dr. Carr began practicing in Indianapolis in 1939, the year of his graduation from the School of Dentistry, and maintained a practice here until his death. He taught oral surgery at the School in 1939 and 1940, and was a part-time faculty member in the department of radiology from 1952 until his retirement in 1984. He served as acting co-chairman of the department from 1966 to 1971. He also taught dental history and clinical photography.

As school historian, Dr. Carr was a frequent contributor to the *IUSD Alumni Bulletin*. In recent years he wrote colorful profiles on such pioneers of dentistry as alumnus Glenn J. Pell, an oral surgeon from the Class of 1912, and Howard R. Raper, noted dental radiologist and 1906 graduate of Indiana Dental College.

A respected dental photographer, Dr. Carr covered the Fall Dental Conference and many other alumni events for the *Bulletin*. He was also official photographer for the *Journal of the Indiana Dental Association*. Several years ago he was honored by the American Dental Association for his photographic coverage of ADA meetings.

Dr. Carr was president of the School of Dentistry Alumni Association in 1962, the Indianapolis District Dental Society in 1966, and the American Academy of the History of Dentistry from 1973 to 1974.

In 1975 Dr. Carr was named distinguished alumnus of the School of Dentistry and was honored as dentist of the year by the Indianapolis District Dental Society in 1979. He was a member and former delegate of the American Dental Association, and a member and former speaker of the House of Delegates for the Indiana Dental Association. He was awarded the Maynard K. Hine Medal by the IU Alumni Association in 1979. He was a fellow of the American College of Dentists and a member of numerous professional organizations.

Dr. Carr was born in Clayton, Indiana. He received bachelor's and master's degrees from Butler University. He served during World War II with the 32nd General Hospital as a captain in the Army Dental Corps, and was past commander of Paul Coble American Legion Post.

Dr. Carr is survived by his wife, Marjorie Metz Carr, whom he married in September, 1986; a daughter, Barbara Jane Moore; sons William B. (DDS '70), James B. (DDS '76), Charles W., and David L. (DDS '78); and nine grandchildren.

1918

Dr. John S. "Pat" Eilar, Albuquerque, New Mexico, died August 30, 1986 after a long illness. Portions of his obituary appearing in *The Tribune* are reprinted here:

Eilar retired in 1973 after 50 years as an Albuquerque dentist. He came within five votes of being elected president of the American Dental Association in 1963.

Eilar was an avid golfer and rose gardener who came to New Mexico in 1922 from his home in Arcadia, Indiana, to recover from asthma. There were only 14 dentists here when he started. Now there are nearly 200 . . .

He served as secretary of the New Mexico Dental Association for 21 years and once was a delegate to the American Dental Association.

He was president of the Albuquerque Dental Society and the New Mexico Dental Association . . .

He assisted in writing the first manual for teaching dental hygiene in the public schools of New Mexico and served as dental consultant for director of the State Health Department.

He became one of the few ever to see Halley's comet twice in a lifetime. He watched the comet's brilliant appearance from his Indiana home 76 years ago at age 12 . . .

During retirement he researched the Eilar family, which migrated to the U.S. from Germany in 1717 on his father's side and in 1714 on his mother's side. They have more than 6,500 descendants.

1924

Dr. John B. Sproull, a Carmel resident since 1956, died in October, 1986. He was born in Sheldon, Illinois. Dr. Sproull's multi-faceted career included U.S. Navy Service, years of dental practice in India, and extensive travel in Europe, Africa, Australia, and New Zealand, as well as practice in Indianapolis from 1954 until his retirement in 1965. He helped to establish the India Dental Association, and served as editor of the *Punjab Dental Review*. Dr. Sproull was a member of the American Dental Society of Europe, and was a veteran of World War I. In 1932 he won the Viceroy's Cup in India for speed flying. He is survived by a sister, Ethel Montgomery; and a brother, Robert.

1926

Dr. Harold C. Dimmich, PO Box 2782, 126 Country Squire Ct., West Lafayette, IN 47906, has informed Dr. Ralph Phillips that Dr. William McKay Duncan died August 13, 1986. Services were held in West Milton, Ohio. He is survived by two sons and a sister.

1928

Dr. Paul Gilmore ('57), Charleston, South Carolina, has reported the recent death of Dr. Virgil Shonkwiler in Summerville, South Carolina. Dr. Shonkwiler was a member of the Indiana Dental Association and the Isaac Knapp dental society.

1929

A new address for:

Dr. M.C. Longenecker
406 Heron Road
Clearwater, FL 33546

1933

We have received word of the death of Dr. Gilbert D. Quinn, formerly of Indianapolis, in Fort Lauderdale, Florida on October 29, 1986. He had practiced dentistry for 41 years before retiring in 1974. Dr. Quinn is survived by his wife, Betty; son, Michael M.; daughter, Karen White; four grandchildren and three great-grandchildren.

1935

We have word that Dr. Hoyt S. Kuhns, Terre Haute, died November 11, 1986. He is survived by his wife, Hazel.

1936

A nice letter came from Leah Kirsh, wife of Dr. Charles Kirsh, just before Dr. Kirsh's sculpture exhibit was scheduled to open at Montclair State College in Upper Montclair, New Jersey. According to the College newsletter, *ON Campus*, Dr. Kirsh's exhibit, entitled *Contradictions*, "reflects the conflicting forces of the universe: pleasure, harmony, empathy and understanding which coexist with disturbance, pain and confusion." Dr. Kirsh works with diverse surfaces, light, shadow and space to communicate his themes. Mrs. Kirsh, 12-46 12 St., Fair Lawn, NJ, says:

When we attended the class reunion in September there seemed to be a great deal of interest in my husband's second career and upcoming show at Montclair State College.

He attributes a great deal of his skills to his training at IU when he worked his way through dental school in the National Youth Administration program by carving larger than life plaster models for teaching purposes.

He has had a lifelong interest in art—especially sculpture and upon retirement he has the time to visit galleries and watches the latest developments in the field.

1940

Dr. Charles A. Fly, Jr., PO Box 94, Deshler, OH 43516, dropped us a note to update us on his extensive involvement as a Mason. He says, in part:

... I have been involved in all branches of Masonry (and) have been at the head of all Masonic bodies. I just finished all of the York Rite and Scottish—and the Covent General of York Rite ... I have travelled from East to West—and North to South. I just finished with my session ... August 1985. I wish I could be with you, but cir-

cumstances will not permit. I retired from my practice about 4 years ago. Wishing all of you "Happy Holiday" and a fruitful new year in 1987.

Dr. John A. Green, Merritt Island, Florida, died in September 1986.

1945

Dr. L. William Jefferis, who practiced dentistry in Wanamaker for 36 years, died November 7, 1986. He was a Navy veteran of World War II and an Army veteran of the Korean War.

He was the widower of Rosalyn M. Jefferis. Survivors: wife, Julia Jean; daughters, Judy J. Shore and Patricia J. Pierce; stepsons, Richard L. and Kittredge E. Gipson; stepdaughter, Jerri Lynn Peters; mother, Grace O. Jefferis; brother, James; and five grandchildren and seven step-grandchildren.

1948

We were pleased to receive a newsy letter from Dr. Robert D. Avery:

This letter will inform you of an address change to 14521 Halsted Street, Harvey, Illinois 60426. I still put in two half days at Michigan City, but I spend four days here. It is an easy commute as I live just three miles off the freeway, and this office is just four miles removed from the same freeway. I do not do all phases of general dentistry, sticking mainly with prosthetic work, as it is not as hard on the eyes and the coordination between feet and eyes operating the high speed equipment. My oldest son practices at Cheboygan, Michigan, so the third generation is still involved in the profession, and he is the only one of the nephews and nieces that is so involved, which gives me a prideful feeling. My youngest girl, Lisa, will graduate from high school in '88. For hobbies, I do a little gardening, travel down to the farm in Earl Park, and go to the basketball games and baseball games that my grandson plays in at River Valley High School in Three Oaks, Michigan.

1949

Dr. Charles Gish (MSD '60), former co-chairman of community dentistry and professor of pediatric dentistry, and Dr. Otis Bowen, U.S. secretary of health and human services, have received the Indiana Public Health Foundation's second annual Tony and Mary Hulman health achievement awards.

1952

Dr. Ray L. Janes, 5503 E. Washington St., AFNB Bank Building, Indianapolis, IN 46219, shares a family memory:

... As a little boy I recall my father receiving a letter every year from France at Christmas time. This was from Rolande Hay. During World War I my father was a Master Sargeant, Signal Corps, stationed in Blois, France. At that time Rolande was six years old. My father became friends with her family. Rolande developed a painful toothache one day. Since there was no dentist in the village my father offered to take her to the U.S. Army dentist for treatment. Thus, the toothache was cured and a little six-year-old girl could smile again. Also, this developed a lifelong friendship with Rolande Hay and her family and my Dad.

In 1983, Dr. Janes' youngest daughter, Nancy, visited the village of Les Montils, near Blois, while touring with a group of students from Northwestern University. There she met Miss Hay, now a retired teacher, thus keeping the ties between the two families strong. The Janes family relationship with the Hay family, and Nancy Janes' visit to France, were featured in an article in the *Indianapolis News* a few years ago.

A new address:

Dr. Charles W. Switzer
2806 E. Kendall Drive
Muncie, IN 47303

1956

Another address change:

Dr. Orbreys Phipps
5249 East 82nd Street
Indianapolis, IN 46250

1957

A note from Dr. Donald G. Lloyd informed us that he retired on August 28, 1986 after 27 years of oral surgery practice in Fort Wayne.

Dr. LaForrest D. Garner (MSD '59), chairman and professor of orthodontics, has been selected, along with Dr. Howard G. Schaller, IUPUI executive dean and dean of the faculties, to represent our campus on the Search and Screen Committee charged with finding a new University president to replace Dr. John W. Ryan, who will leave his post in September of 1987 to pursue fundraising for the Campaign for Indiana.

1960

Dr. Richard P. Elzay (MSD '62) was appointed dean of the University of Minnesota dental school, effective July 1, 1986. Prior to his appointment, he served as chairman and professor of oral pathology at the Medical College of Virginia dental school, where he had been a faculty member since 1962. He served as president of the American Board of Oral Pathology in 1978 and the American Academy of Oral Pathology in 1973.

1961

Dr. Thomas A. Kroczeck has notified us of his new address: 2025 W. Glen Park Avenue, Griffith, IN 46319.

1965

A cheerful note from Dr. Joel Knapp at his new address: 623 East Main Street, Hendersonville, TN 37075:

... We got tired of shoveling snow in Valparaiso for 10 years so we pushed south to Gallatin, TN (near Nashville) where it's warmer. I'm busy running in marathons (Boston included) and canoe racing, camping, fishing, oil painting and raising three children. I still enjoy dentistry and have seen Johnny Cash as a patient. I even saw (classmate) Ron Harper this summer—We wish you well.

1972

Dr. Roger Miller was recently featured in the *LaPorte Herald Argus* for his skill behind the fishing reel. Excerpts from an article by sports writer Dale Merkel follow:

When most people think of fishing, visions of spending a lazy Sunday afternoon relaxing with a line in the water pop into their minds. For Roger Miller, fishing is a concentrated effort for many hours at a time.

Miller isn't the typical weekend fisherman. He is one of only 17 members of the LaPorte County Bassmasters Club and he is a state champion.

When fishing in tournaments, Miller doesn't relax and wait for the big tug on a crankbait that tells him he has hooked a bass. He uses a jig and is waiting for a tap that could easily go unnoticed if the fisherman is not completely concentrating.

"It's amazing what you can feel when you're thinking about it," he said "It's amazing what you won't feel when you're not paying attention and trying to carry on a conversation."

Miller, who has had a dental practice in LaPorte for 14 years, said he can feel the bait "tickling" weeds as it moves through the water. Miller said remaining sensitive to slight sensations is the key to catching bass.

"Unless you're giving it 100 percent concentration, you don't even know the fish is there," Miller, who said bass will only make momentary contact with artificial bait before realizing it's not real and releasing it, stated.

Miller . . . won the Indiana State Bass Chapters Federation Tournament this season . . .

A typical day of fishing in a tournament involves getting up at 3 a.m., spending the day fishing in the heat after traveling to the lake where the tournament is being held and returning home about 5:30 p.m. Understandably, tournament fishing isn't for everybody . . .

1974

Dr. Bashar Bakdash (MSD), professor of periodontology and public health at the University of Minnesota School of Dentistry, was named the 1986 School of Dentistry Century Club Professor of the Year at the 20th annual Century Club banquet in November. The Century Club is the University of Minnesota's dental alumni organization. Dr. Bakdash has an international reputation in periodontology, and has received recognition for his teaching, research, and service activities from the University of Minnesota, UCLA, the ADA, and the American and International Colleges of Dentists. He lives in Roseville, Minnesota, is married and the father of three children.

1975

Dr. Jack E. Schaaf (MSD '78), associate professor of dental diagnostic sciences at IU, and Lt. John Wesseler, of the Marion County Sheriff's Department, presented a paper on *Dental Care in Jails* to the National Commission on Correctional Health Care in Washington, D.C. in October and conducted a workshop with medical and dental personnel from the Vermont Department of Corrections. Dr. Schaaf has been staff dentist at the Marion County jail since 1977.

1976

Dr. Charles L. Nelson, assistant professor of oral and maxillofacial surgery at the School of Dentistry, has been appointed assistant professor of plastic surgery in the School of Medicine. The part-time appointment reflects his interaction with medical school faculty, residents and students as a member of the Craniofacial Anomalies Team.

The Indianapolis News put the spotlight on Dr. Ross Flaningam last summer for an unusual sideline that is turning into a career. Portions of Moselle Schaffer's article follow:

Unlike most dentists, Dr. Ross Flaningam loads a pistol, backs up and shoots his patients from a range of 30 feet.

That's not what he learned at the Indiana University School of Dentistry, but Dr. Flaningam has had to combine the skills of an anesthesiologist and a marksman since he began treating furry, four-legged clientele.

After graduation from dental school . . . the Zionsville resident embarked on a rather conventional career. He worked in an Indianapolis dental clinic where patients walked mostly on two feet, steeled themselves for the ordeal and bolted from the chair the moment they were dismissed. Sometimes sooner.

The same was true when he worked with Navajo Indians in New Mexico on the largest Indian reservation in the country . . .

After eight years of this diversified dental practice, Dr. Flaningam figured it was time to move on to other things . . . he took a year off to think about it.

During that year, he acquired a wife, Sue, and dozens of exotic animals, in that order. Llamas, eland and large cats such as servals, caracals, cougars, lynx, jaguars, and snow leopards all became part of the Flaningam household . . .

Dr. Flaningam's first unconventional dental patient was an Irish setter that had been hit by a car and required extensive dental work, including a root canal. Next came an excursion into the cavernous mouth of a Barbary ape who had to have four teeth removed.

As the patient load increased, Dr. Flaningam considered settling into a quadruped dental practice as a full-time career.

... "But then I had an incredible experience and found out exactly what I want to do for the rest of my life—become a veterinarian and specialize in the total care of exotic animals," he said.

... When a (friend's) 550-pound female (Siberian tiger) became seriously ill, it was essential the big cat be taken to a specialized clinic to be treated and she had to be anesthetized for the move.

Dr. Flaningam was recruited for the job. He loaded his CO₂-powered tranquilizer gun with a 10cc dart containing the veterinarian's recommended dosage and approached the snarling tiger with a bravado he wasn't really feeling.

"As a minor league 'Bring 'em

Back Alive Frank Buck, 'I was mighty glad there was a fence between us,' he said. "I was also glad the first shot was effective."

Following the veterinarian's instructions, Dr. Flaningam continued the big cat's treatment at home, giving her the prescribed injections at regular intervals throughout the day. Then a kidney problem developed and dialysis had to be done.

The veterinarian inserted intravenous tubes and, for five hours while six gallons of Ringer's lactate cleaned out the impurities, Dr. Flaningam monitored the anesthetized animal.

When another blood sample was needed to check the patient's progress, the medical team was reluctant to anesthetize the cat yet again and a research veterinarian . . . offered a solution.

"As far as I know nobody had ever drawn blood from a fully-awake tiger before. But following . . . directions, we were able to pull the cat's tail out of the cage and hang onto it long enough to tap the vein at the base of the tail.

"It was a strenuous procedure. Not just on the cat," Dr. Flaningam said . . .

On June 1, Dr. Flaningam became a freshman once more, this time as a veterinary student at Mississippi State University . . .

Four years from now, he hopes to add a D.V.M. to his D.D.S. credentials and that too may be a first.

1978

New addresses:

Dr. Stephen Cave
Box 167
French Lick, IN 47432

Mr. David G. Keck (AS-Ft. Wayne)
654 Russell Lake Dr. W.
Zionsville, IN 46077

Our apologies to Dr. Jeffrey Dolle for misprinting his new address in the last issue. Correct address for Dr. Dolle: 2309 Lila Lane, Tampa FL 33629.

1982

A brief note from Dr. John D. Hennette to inform us of his new address: 1302 S. High School Road, Indianapolis, IN 46241, phone 317/241-2882.

Dr. Anoop Sondhi, associate professor of orthodontics at IU, recently presented a program to the Indianapolis District Dental Society on "Current Trends

in the Diagnosis and Management of TMJ Disorders." He was also interviewed on *Indy A.M. on F.M.* for WAJC radio. The half-hour hour discussion on orthodontics included a question-and-answer call-in period. On *Health Scene*, a Channel 8 report, Dr. Sondhi discussed the temporomandibular joint.

1983

Dr. Ruby (Lee) Zitterbart, third year resident in maxillofacial prosthetics at IU, spoke on that topic at a meeting of the Indiana Association of Women Dentists in Indianapolis.

1984

Sarah Manion in the office of student affairs has had a letter from Dr. Mike Bagnoli, 1210 Main Street, Apt. 4, River Edge, NJ 07661, who says in part:

How is everything back in Indiana? Good I hope . . . Everything is going well for Diane and myself out East (Mike married classmate Diane Danner after graduation—eds). I have only about 1½ years left in my residency (oral surgery, Lincoln Hospital, Bronx, New York). The time has flown by. New York is a lot of fun, lots to do and see but we both miss Indiana . . .

New addresses for Dr. Jon B. Inman:

203 Lincoln
Williamsport, IN 47993 (h)

105 East Second Street
Williamsport, IN 47993 (o)

1985

Dr. Ralph E. McDonald, dean emeritus of the School of Dentistry, heard recently from Dr. Herb Pleiman, Jr., 3000 North Beach Road, Manasota Key, Englewood, FL 33533. He says in part:

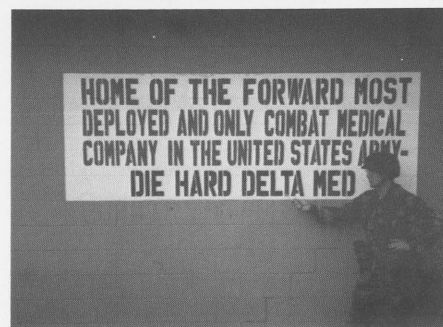
. . . I have seen a lot, and hopefully learned a lot in my first year of being a dentist in the outside world. Typical of me, I miss the stimulation of an academic community.

It has been a great pleasure for me to be back in the warm, sunny south which I love so much.

Recently, I returned to the old haunts of my graduate school experience at the marine school on Key Biscayne. I did not go there to study fish. This time I was on Key Biscayne to attend "Continuum I" at the L.D. Pankey Institute. It was good to be in a learning situation again. The tuition set me back a bit, but a local den-

tist whom I highly respect told me that this was the time in my career to benefit from that training instead of floundering around for several years trying to get a good grip on conducting a quality practice . . .

Not too long ago I learned that Dr. Joe White was going to be retiring down in Venice. I gave him a call while he was here and it was good to chat with him . . .



Capt. Robert Cinatl (DDS '85) with unit sign in South Korea

And Dr. Charles Tomich, professor and chairman of oral pathology, had a letter from Captain Robert Cinatl, stationed in Korea (D Co. 2d MED BN, APO SF 96251-0385):

I recently returned from the most recent edition of the 38th Parallel Dental Society meeting in Seoul, South Korea. Speaking there was a dignified member of IUSD '75 and currently oral pathology consultant to US Forces, Pacific: Richard Canaan. He initially entered the Army, a GPR at Fort Jackson, then exited to residency at Emory. Currently in the Air Force's Yokoto hospital, Japan. The name Charles Tomich popped up twice during his three lectures. I felt moved to cry out "I know that scholar," or words to that effect. Actually, upon reflection, I believe the phrase was ". . . my old prof, Chuck Tomich . . ." (perhaps I should not have written).

I myself attended the GPR at Ft. Jackson last year, commanded by Col. Wm Posey, with whom you are no doubt familiar. He is currently commanding Ft. Gordon, Georgia. Now stationed at Camp Edwards and operating out of Camp Howze, Korea, I have the opportunity to serve the men of the 2nd Infantry Division, and casually note the broad scope of pathology common in the local population . . .

Hopefully next year to Ft. Devens, Massachusetts . . .

New addresses for:

Dr. David A. Albright
1600 S. Gay Avenue #202C
Callaway, FL 32404
(904) 871-1635

Dr. Pete M. Gronet
USA Dental Clinic
Schinnen NL
APO NY 09011

Dr. Katherine Patton
6029 Beachview Dr., Apt. 253
Indianapolis, IN 46224

1986

More address changes:

Dr. Jeffrey S. Hardwick
311 Citizen's National Bank Building
Bedford, IN 47421

Dr. Lon P. Spain
8066 Dowitch Lane, Apt. H
Indianapolis, IN 46260

Dr. Brian Tinny
949 Herr Street
New Lenox, IL 60451

Michigan Street Memos



Indiana/Matsumoto Get Together. *Representatives of the Matsumoto Dental College, of Japan, visited with IUSD faculty and staff in December. (Our school signed an Agreement of Friendship with Matsumoto Dental College in 1985.) Pictured on the School's front lawn on the way back from a luncheon are, from left: Dean H. William Gilmore; Dr. Takahiro Imanishi, Matsumoto's academic director, office of external affairs; Mr. Hirotohi Yokoyama, computer specialist, Matsumoto Data Center; Dr. Rose Marie Jones, IUSD assistant professor of prosthodontics; Dr. Tetsuya Takamata, associate professor of prosthodontics at Matsumoto; Ms. Agnes T. Kluska, IUSD coordinator, patient admissions and assignment; IUSD Associate Dean James R. Roche; Mr. Donald O. Booth, IUSD fiscal officer, clinics/ student services; Mr. David M. Carlson, Matsumoto's general manager, office of external affairs; Dr. Roland W. Dykema, IUSD professor of prosthodontics; and Dr. Varoujan A. Chalian, IUSD chairman of maxillofacial prosthetics. In the photo below, Mrs. Linda Nunley, IUSD instructor in dental practice administration, trades computer tips with members of the Matsumoto tour group.*



Photos by Mike Halloran



Mike Halloran

Dr. Lawrence I. Goldblatt (inset) hosts representatives of American Association of Dental Schools, shown on the steps of the Indiana University School of Dentistry.

School of Dentistry Hosts National Dental Meeting

"We accomplished our goals—and people came away impressed with our School, the University, and the city of Indianapolis." That's how Dr. Lawrence I. Goldblatt, professor of oral pathology and chairman of the American Association of Dental Schools Council of Faculties, summed up the Association's Interim Meeting, held at the School October 31-November 1. Indiana is the only school to have hosted the Interim Meeting twice in its 11-year history—the first time was in 1977, when Dr. David Avery was Council chairman.

Featured speaker this year was Dr. Enid Neidle, American Dental Association assistant executive director for scientific affairs and immediate past president of the AADS. Dr. Richard Mackenzie, chairman of dental education at the University of Florida, provided an update on creation of a national curriculum for faculty development, a project of the Council of Faculties being tested at various sites. Mr. Tom Knoth, regional representative of Teachers Insurance and Annuities Association-Col-

lege Retirement Equities Fund (TIAA-CREF) spoke on the current status of these retirement plans.

Representatives from 50 U.S. dental schools participated in activities, which included a reception at Union Station sponsored in part by PANAM X, coordinator of the upcoming Pan American Games. Dr. Goldblatt was pleased with the opportunity to show our School to AADS representatives from across the country, including some who attended the Indiana meeting a decade ago and noted the many changes in Indianapolis since then. "I was impressed with the number of ties to IU in the group—as grads, former grad students, and so on," Dr. Goldblatt said. "The AADS representatives underline the important role our School has in dental education."

Gift Memorializes Dr. Lynn McConnell

Members of the graduate periodontics class of 1976 have presented a gift to the Indiana University School of Dentistry Periodontics Department Fund in memory of classmate Dr. Lynn S. McConnell, of Evansville, Indiana, who died in January, 1986. Dr. McConnell received his D.D.S. here in 1974. The gift is designed to support dues of graduate students in periodontics for affiliate membership in the American Academy of Periodontology for the duration of each student's graduate program. Contributors to the fund are: Dr. Michael J. Duch, Fort Wayne; Dr. John B. Lehman, Jr., South Bend; Dr. Robert H. Hornbrook, Morgantown, West Virginia; Dr. Eugene H. Nelson, Melbourne, Australia; and Dr. Robert E. Sharp, Glen Falls, New York.

Update on Jarabak Lectures and Library

Dr. T.M. Graber, editor of the American Journal of Orthodontics and authority on temporomandibular joint anatomy, recently presented "State of the Art and Science of TMJ," the third in a series of Louise Jarabak Lectures. The series honors the late wife of Dr. Joseph R. Jarabak, benefactor of the Department of Orthodontics. Coinciding with the course was dedication of the Louise A. Jarabak Orthodontic Memorial Library, formerly seminar room S208. Dr. Jarabak, of Valparaiso, Indiana, attended the dedication. The library will continue to be used for seminars and will house professional literature relating to orthodontics.



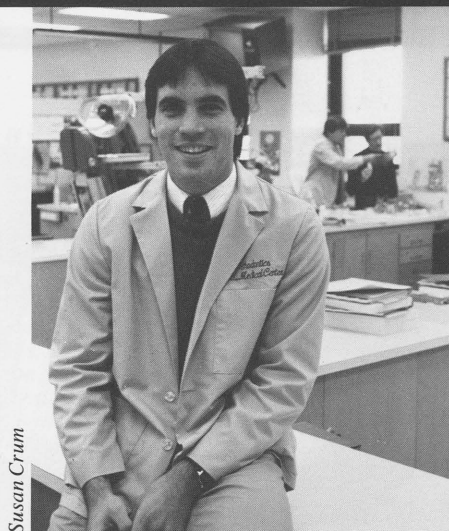
Dr. LaForrest D. Garner, chairman of orthodontics (left), visits with Dr. Joseph R. Jarabak (center) and Dr. T.M. Graber in newly dedicated Louise A. Jarabak Orthodontic Memorial Library.



Dr. Jarabak studies portrait of his late wife, Louise Jarabak, which is on display in the library.

Dr. Hine Honored in Miami

Dr. Maynard K. Hine, chancellor emeritus of IUPUI and former dean of the School of Dentistry, was named "International Dentist of the Year" by the Academy of Dentistry International during the annual meeting in Miami on October 17. Dr. Hine also gave the convocation address for the American College of Dentists and took part in the American Dental Association's memorial for former ADA executive director, Dr. Harold Hillenbrand.



Susan Crum

During his fourth year of dental school, Dr. Michael J. Koufos noticed in the American Dental Association *News* an announcement of ADA plans to form a Committee on Young Dentists, to be composed of 16 members under the age of 40. "I was looking for ways to get involved in organized dentistry," said Dr. Koufos, a native of Munster, Indiana, who entered the IU graduate program in orthodontics after graduating last spring. "This looked like the perfect opportunity." It turned out to be precisely that—ADA President Abraham Kobren selected Mike along with 15 other dentists for the committee. He was appointed as graduate student representative for a two-year term.

The Young Dentists gathered for their first meeting in Chicago in September to begin laying groundwork, investigating ways to involve young dentists in ADA activities sooner and to make organized dentistry relevant to dentists in the first years of their profession. Mike's enthusiasm is obvious: "I'm excited about this committee—the very fact that there is one! I hope we can pump some fresh blood into the ADA and address specific problems facing the new dentist, such as non-traditional practice styles—the kinds of new experiences that

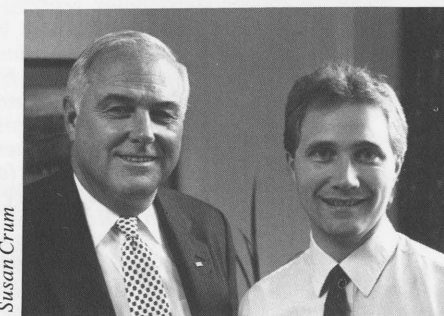
IUSD Graduate Student Is Appointed to ADA Committee on Young Dentists

Dr. Michael J. Koufos

have you staring at the ceiling in the middle of the night."

Mike, the youngest member of the group at 26, noted that the committee was composed of many experienced leaders in organized dentistry. He hopes that in the future the majority of members will mirror the type of dentists that the committee seeks to help: those who are just starting out with little or no experience in organized dentistry. "People in the first five years of dentistry—they need organized dentistry more than anyone for the moral and intellectual support, the helping hand when you don't know how to do something and don't know whom to ask. The number of benefits to be derived from ADA membership is overwhelming, but a lot of people aren't aware of what they are."

Mike looks forward to playing a part in motivating young dentists to get a foothold in professional activities. "The young dentist brings to organized dentistry a fresh viewpoint that hasn't been contorted by all other influencing factors that work on you as you go through life. For me, the most important reasons for getting involved are to exercise control over my destiny and to have some say in where my profession is going."



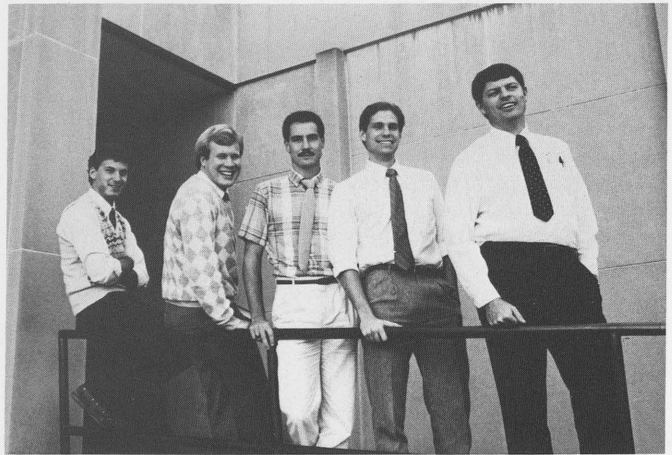
Susan Crum

A Pair of Sevens: *Dean H. William Gilmore, American Dental Association trustee of the Seventh District since 1982, chats in his office with Mr. J. Barry Howell, third year dental student at Indiana University and newly elected trustee of the Seventh District for the American Student Dental Association. As trustee, Barry represents all dental schools in Indiana, Illinois, Wisconsin and Minnesota. He replaces Trustee Anita A. Walters, a fourth year student also from Indiana University, who recently completed a one-year term.*

IUSD Class Officers



First year, from left: Stacy D. Johnson, president; Rebecca J. DeLaRosa, treasurer; Carrie A. Zimmerman, secretary; and John G. Kostides, vice president.



Second year, from left: Daniel F. Gabrek, co-vice president; Bruce G. Bales, secretary; Gerald J. Rahrig, co-vice president; John R. Kirkpatrick, treasurer; and Michael S. Firth, president.



Third year, from left: Bonni M. Boone, treasurer; Richard D. Burns, vice president; Jennifer M. Reis, secretary; and Sue VanBlaricum, president.



Fourth year, clockwise from upper left: Jeffrey E. Steele, co-vice president; Mark W. Fulton, president; J. Courtney Gorman, co-vice president; Robert C. Scheele, treasurer; and Joseph A. Zakowski, co-vice president. Missing from photo is Bradley S. Igney, treasurer.

Photos by Mike Halloran



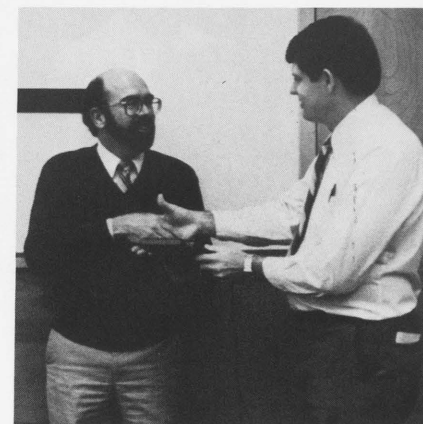
IUSD Student Affairs Council (SAC) takes five before noon meeting at the dental school. Front row, from left: Elaine A. Hrisomalos, secretary; Sandra C. Paraiso, treasurer; Anita A. Walters, president; and J. Kevin Coghlan, vice president. Back row, J. Barry Howell, third year class representative; Annette J. Williamson, fourth year representative; Professor Gail Williamson, member of the Student Affairs Committee (a standing committee of the IUSD Faculty Council); and Dr. Myron J. Kasle, SAC faculty adviser and chairman of the Student Affairs Committee. Missing from the photo are Christopher W. Potee and Michael K. Kluth, first and second year representatives, respectively.



It was not quite business as usual at the dental school on Friday, October 31. The Halloween spirit inspired many of the faculty, staff, and students to don attire fitting the occasion. An informal reception in the School lounge was sponsored by the IUSD Non-Academic Staff Council. Participants who caught the photographer's eye included (upper left photo, from left): Mr. Donald O. Booth, IUSD fiscal officer; Dr. Mark W. Beatty, assistant scientist in dental materials; and Dr. Melvin R. Lund, chairman of operative dentistry; (lower left) Ms. Debra Evitts, dental assistant in TEAM Clinic, with fourth year student Diana K. Lunn; and photo at right: Dr. Charles J. Goodacre (top), chairman of prosthodontics, peeking out of lecture hall with colleague Dr. Carl J. Andres, associate professor of prosthodontics.



Photos by Mike Halloran



On a Friday morning in November Dr. James L. McDonald, professor of preventive dentistry, found nothing unusual about his 8 o'clock biochemistry lecture to the first year dental class—that is, until the entire second year class walked into the lecture hall unannounced and presented him with a plaque for being out-

standing instructor of the previous year. Mr. Mick Firth, president of the second year class (right, inset) presented the award on behalf of his classmates to a surprised Dr. McDonald. The group wanted to recognize Dr. McDonald's expertise as a lecturer during their first year of dental school.

Indiana University
School of Dentistry
(ALUMNI BULLETIN)
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