

ALUMNI BULLETIN

Volume 8, Number 4, Summer 1994

Dental School Renovations:

What's in store for the second floor

THIS ENTRANCE
CLOSED
DUE TO
CONSTRUCTION

USE

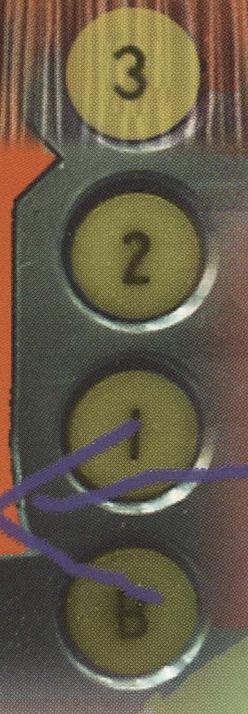
←
OTHER
←

DOOR

Orthodontics
has moved
to S-405

Pediatric
Dentistry
has moved to
Clusters E & F
(3rd floor)

OPPORTUNITY!!!

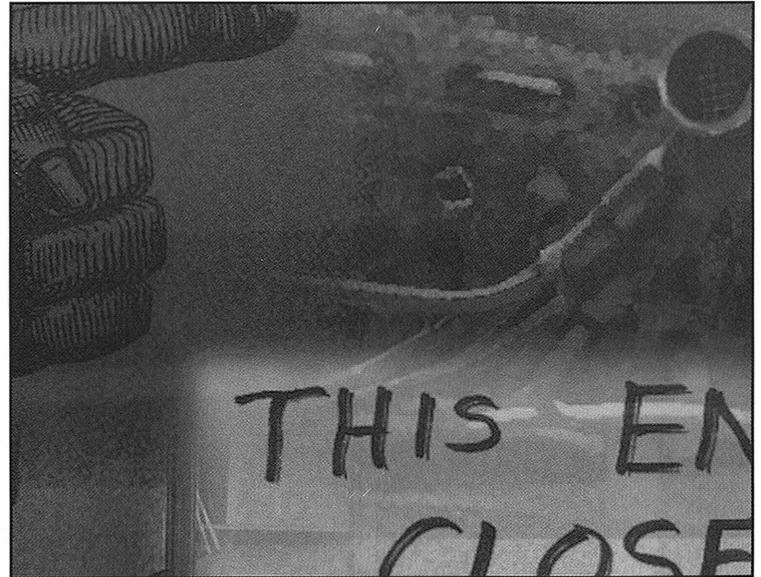


FEATURES

- 2** **Temporarily Topsy-Turvy**
Employees and students make the best of temporary quarters so that work can be completed quickly on several major renovation projects under way at the dental school
- 4** **Research Day Revisited**
Dental caries expert William Bowen joins hundreds of dental school participants at the second annual tribute to the school's research program
- 7** **Donor Recognition Reception**
A round of applause for IUSD's loyal supporters
- 14** **Saluting IUSD's Newest Grads**
IUSD classes of '94 assemble at the Indiana Convention Center to the sound of cheers from hundreds of family members, friends, and other well-wishers
- 24** **Professional Development Program**
More than 150 grads enjoy a special benefit of their Alumni Association membership
- 30** **Solving Mysteries of the Mucosal Immune System**
The Bulletin highlights the work of mucosal immunologist Richard L. Gregory

DEPARTMENTS

- 1** **Notes from the Dean's Desk**
- 6** **Development Matters**
The dental school makes room for the John C. Gorman, Sr., Continuing Education Center
- 11** **Postdoctoral Profiles**
- 12** **Reflections**
Greenwood dental hygienist Nancy Porter Blackburn has been on the job for 35 years
- 19** **Michigan Street Memos**
- 22** **C.E. Calendar**
- 26** **DAE around Indiana**
- 28** **With the Classes**



ON THE COVER

Some of the sites along the renovation trail at the dental school during the summer of '94, when many employees moved to temporary quarters so that portions of the building could be closed to the public. After several key projects, going on simultaneously, are complete, the school will enjoy benefits to be derived from two new clinics, a new continuing education center, and a state-of-the-art oral biology research facility. Story begins on page 2.

Cover photos by Susan Crum; design by Lisa Barnett

The *Alumni Bulletin* is an Indiana University School of Dentistry publication directed to all members of the IUSD alumni. There are four issues each year: Fall (special issue annual report), Winter, Spring, and Summer. Material included herein does not necessarily represent the official position of the School. Editorial office address: Editor, *Alumni Bulletin*, Indiana University School of Dentistry, Room 104, 1121 West Michigan Street, Indianapolis, IN 46202; telephone: 317/274-8135; and fax: 317/274-7188.

PUBLICATIONS STAFF. Editor: Jack E. Schaaf; Managing Editor: Susan M. Crum; Chief Photographer: Mike Halloran; Photographic Technician: Alana L. Barra; and Staff Illustrator: Mark A. Dirlam

IUSD ALUMNI ASSOCIATION OFFICERS. President: Vincent M. Guido (DDS'82); President-elect: Roger L. Isaacs (DDS'69); Immediate Past President: John A. Rahe (DDS'63); Vice President: Victor R. Clevenger (DDS'69); Secretary/Treasurer: James A. Shupe, Sr. (DDS'62); and Executive Council Representative: Richard D. Ellsworth (DDS'73)



Publication member of the
American Association of
Dental Editors

Notes from the Dean's Desk

This summer the hundreds of faculty, staff, and students who inhabit the School of Dentistry work place proved they were not only adaptable to change, but also enthusiastic about renovations that are helping us prepare for IUSD's future in dental education.

Many offices and clinical areas associated with the six departments were moved to temporary locations so that remodeling of the building could take place without disrupting the continuity of patient care.

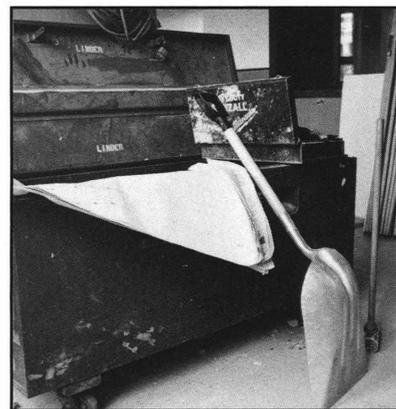
My deepest appreciation goes to every student, faculty member, and staff member affected by the construction. The pleasant surprise has been in observing that clinical activities are increasing instead of diminishing during this period of rebuilding—a clear manifestation of this organization's dedication.

The reward for making do with temporary quarters will be new facilities in September 1994, which will align our school with the initiatives of dental education for the 1990s. The new departments of Oral Biology and Oral Facial Development are the primary beneficiaries at this time. The changes, some of which are described on the following pages, are being implemented to markedly improve patient services and expand research opportunities. This ultimately will strengthen the school's main components of instruction and curriculum in the undergraduate dental program. Within the next few years renovations will affect every department as the dental school building is transformed into a state-of-the-art facility.

A major problem in higher education is the maintenance and enhancement of the physical facilities of universities. Funds are not available to adapt buildings or to keep pace with technology. All schools must develop their own finances—a monumental challenge faculties will face long into the next century.

The strategic plan for the IU School of Dentistry includes facility enhancement, and IUSD's work force is congratulated for adapting to make this modernization possible. The reward for these efforts will come when the metamorphosis of our work place is complete, and the facility stands among the most competitive in dental education.

H. William Gilmore



The pleasant surprise has been in observing that clinical activities are increasing instead of diminishing during this period of rebuilding—a clear manifestation of this organization's dedication.



Temporarily TOPS-TU-VY

Renovations intended primarily for the dental school's second floor have generated a ripple, if not a tidal wave, of construction-related activities lapping into nearly every corner of the building. Faculty and staff spent the summer packing up belongings and working out of makeshift quarters as demolition teams and building crews, laboring in sealed-off areas, went about the sometimes noisy and obtrusive business of making much-needed improvements at 1121 West Michigan Street. Tolerating a less than orderly environment for several months will have been worth it: When the final nail is hammered into place, the school will have acquired two new clinics, a continuing education center, and a state-of-the-art oral biology research facility.



If you could hoist the dental school from its foundation, give it a mighty shake, and then carefully set it back down, you'd have a picture of just how scrambled the school's contents became during the summer of 1994.

On a stroll in June through dental school corridors (those that weren't blocked by locked doors or temporary fire walls), we noticed:

- a string of youngsters checking in for appointments at the "crown and bridge" window
- oral and maxillofacial surgery employees camping out in the periodontists' territory
- orthodontists on the job in the dental hygiene clinic
- employees of stomatology discovered a couple here, a couple there, occupying nooks and crannies on nearly every floor from the basement up

- the Clinical Affairs staff and tens of thousands of displaced patient charts shoe-horned into a lecture hall
- a first-floor lecture hall that can't be accessed from the first floor, and
- an assortment of intriguing gadgets, gizmos, and contraptions parked in hallways, dangling from windows, or perched on the lawn.

It would take every page of this issue of the *Alumni Bulletin* to fully describe all of the physical transitions currently under way at the dental school. In the limited space here, we can tell you that as of this writing in June, at least a half dozen separate projects are in motion. Most are associated with a complete overhaul of two thirds of the second floor—the section in the original building, constructed in 1933, and the portion in the building's second addition, constructed in 1972.

Altogether about \$3.1 million is involved in renovation projects, which, when completed, will propel the school a good distance down a path that leads to its goal of acquiring a world-class facility—a place where teaching and research objectives set forth in the strategic plan can be readily, and realistically, achieved.

Orchestrating all of the projects with Dean H. William Gilmore is Lynn K. Finkel, the dental school's director of administrative and financial affairs. Several teams of faculty and staff members have devoted many extra hours poring over blueprints to help plan and design the renovated areas.

If all phases of the work stay on schedule, by summer's end the School of Dentistry will have:

- New second-floor clinics for orthodontics and pediatric dentistry housed side by side in the Department of Oral Facial Development. The redesigned ortho clinic will stay in its current location, and the pedo clinic will take the place of the faculty practice clinic across the hallway. A total of 37 new dental units will be installed (25 in orthodontics, 12 in pediatric dentistry).
- A new location for the faculty practice clinic, which will move to the second-floor clinic formerly used by oral and maxillofacial surgery. A year ago the new Department of Surgery and Hospital Dentistry moved its undergraduate surgery clinic to an area adjacent to diagnostic sciences (now called the Department of Stomatology) on the first floor.
- A suite of laboratories and new instruments for the Department of Oral Biology, to be situated in the former pediatric dentistry clinic and surrounding area. This location will be home to Dr. Marilyn Lantz, IU's newly appointed chair of oral biology who is currently finishing up duties on the faculty of the University of Pittsburgh, and to her team of researchers. They are scheduled to arrive in August. The facility will incorporate the immunology lab and staff that have been working out of an area at the Oral Health Research Institute. Space also is being designated in this section for a researcher from Procter & Gamble Co., who will be collaborating with IU researchers on a number of projects.
- A shared instrumentation room on the second floor that will serve as a resource for all school researchers. The new oral biology and immunology group will be the last to move into a second-floor neighborhood of researchers that includes a geneticist, faculty and staff in two molecular biology laboratories, an electrical engineer who directs the new oral and maxillofacial imaging research facility, and faculty and staff in the biome-

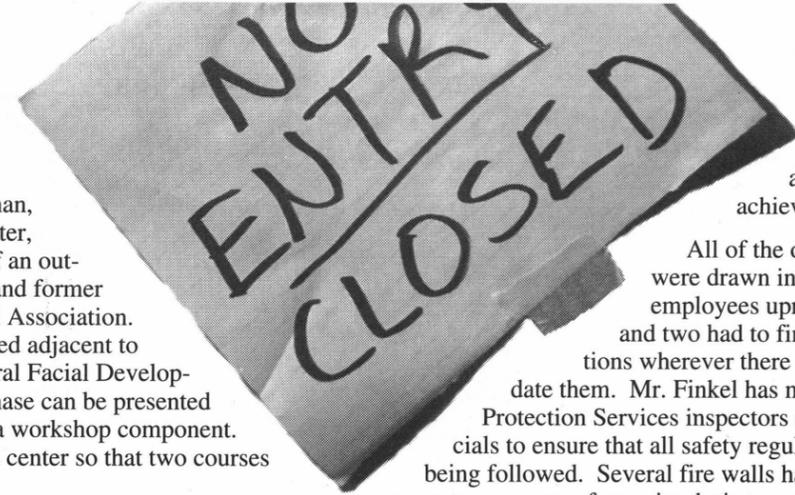
chanics research laboratory and in the bone research laboratory.

- A newly created John C. Gorman, Sr., Continuing Education Center, named to honor the memory of an outstanding Indiana orthodontist and former president of the Indiana Dental Association. The 50-seat room will be located adjacent to clinics in the Department of Oral Facial Development, where the "hands-on" phase can be presented conveniently for courses with a workshop component. It will be possible to divide the center so that two courses can be given simultaneously.
- A reconfigured basement laboratory (SB05). The laboratory's center dividing wall will be removed, converting the lab into one large room, as it was originally designed and used until the mid-'80s. Twenty new television monitors also are being installed.
- A spruced-up graduate endodontic clinic on the third floor, including new flooring and wallpaper.
- A computer system that is part of an international network. The school's existing computers are being brought up to network standard and some 70 new ones have been purchased. Wiring is being installed throughout the building to link the computers to the Internet, a network that will allow dental school employees to launch computer communications to other users, whether they are located on the other side of the building or on the other side of the world. Each department also is being set up to tap into IU's new electronic accounting system, which will make it possible for much of the dental school's administrative paperwork to be eliminated. A new computer system for the dental clinics is on the horizon.
- Ten new radiographic units and 10 new dental chairs in the Department of Stomatology on the first floor. The radiographic units will be able to generate computer images and send them to computers elsewhere in the building as well as to computers off site (and teachers and practitioners at other sites will in turn be able to transmit images to IUSD).

As with any older structure, and especially one as complicated as a five-floor healthcare facility, a single project often spawns several others. The work going on now has given rise to an entire collection of less visible, but equally important projects: updates to the second floor's infrastructure. The antiquated heating and cooling systems in the front part of the building will be converted to the chilled water system already in use in the newer sections of the building. Sprinkler systems will be added and the electrical system updated.

To upgrade fire prevention capabilities and plumbing for the second floor, it has become necessary for the school to connect to a different water main, one on the north side of Michigan Street. This will require in late summer the digging of a long trench on the west side of the school that will lead to the plumbing access point on the southwest corner of the building.

The school's first floor began to play a role in the second-floor renovations when it was learned that new dental units couldn't be installed on floor two without extensive—and expensive—rerouting of plumbing to steer clear of asbestos in the first-floor ceiling. The most cost-effective solution to this problem was to close down part of the first floor at the same time the second floor was torn up.



Floor one south of the elevators has been sealed off so that asbestos abatement can be achieved.

All of the other parts of the building were drawn into the renovations when employees uprooted from floors one and two had to find temporary work stations wherever there was room to accommodate them. Mr. Finkel has met frequently with Fire Protection Services inspectors and other campus officials to ensure that all safety regulations are in place and being followed. Several fire walls have been constructed as an extra measure of security during construction.

Dental students have been making do with the inconvenience of having fewer dental units available to them since some of the clusters have been taken over by displaced clinics. First-floor dental patients have traded the comforts of their reception room for plastic chairs scattered about in the main lobby. A dozen semitrailer loads of dental school furniture and equipment have been hauled away to storage. Professional movers will bring the equipment back, but faculty and staff who tediously packed up their personal belongings and unloaded their bookshelves in May—including a group that transferred 56,000 patient charts to lecture hall 115—know that they face the mind-numbing task of moving everything back in a few weeks.

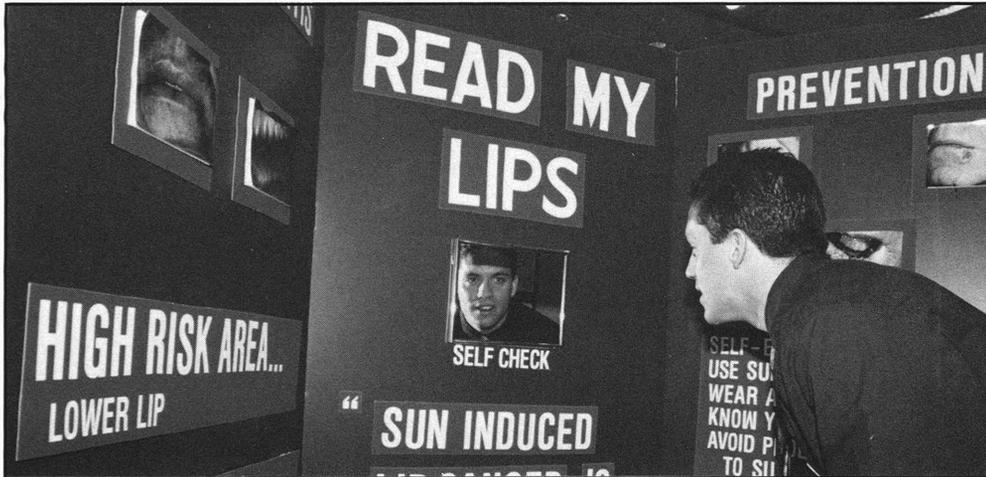
All in all, the summer of '94 won't go down in history as the dental school's most tranquil and orderly. But for those who patiently spent the summer dodging workmen, endlessly repeating directions to perplexed school visitors, and searching for ways to block out the din of progress, there is the assurance that from this chaos will emerge significant changes to the building—changes that promise to have an extraordinary bearing on the quality of the school's educational and research programs.

After the Dust Settles
A series of renovations currently under way will result in:

- New orthodontic and pediatric dentistry clinics
- A new oral biology research facility
- A C.E. center named in memory of orthodontist John C. Gorman, Sr.
- Improvements to the basement laboratory and the graduate endodontic clinic
- Relocation of the faculty practice clinic to the former oral and maxillofacial surgery clinic
- Access to a global communication network
- Acquisition of 10 new radiographic units and 10 new dental chairs in the Department of Stomatology

Research Day Revisited

Photos by Mike Halloran



Orthodontic graduate student Dr. Ronald Miller reflects on a dental hygiene table clinic that collected two awards in the Research Day competition.

From discussions of backaches suffered by dental professionals to discourses on nicotine-induced changes in human bone cells, researchers and table clinic presenters offer an eclectic mix of information at the dental school's second annual Research Day.

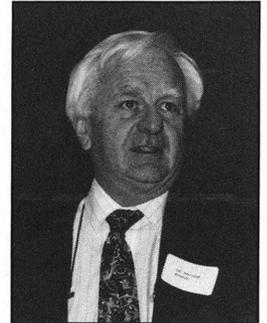
More than 100 research posters and table clinics were presented at the Second Annual Research Day, a meeting presented March 31 by the IU School of Dentistry and the Indiana Section of the American Association for Dental Research (AADR).

Research and clinics by dental faculty, students, and staff included many projects submitted for presentation at the annual meeting of the AADR, held in Seattle in March.

The dental school's clinics were closed for the afternoon so that everyone with an interest in research could participate in this event, which was held at the University Place Conference Center and made possible in part with support from the Wm. Wrigley Jr. Company. Dental professionals outside the school were invited to attend at no charge; those participating earned several C.E. credits.



Dr. Jeffrey Dean, 1993-94 president of the Indiana Section, American Association for Dental Research



Keynote speaker Dr. William Bowen, director of the University of Rochester's Caries Research Center



Karen Beard, an instructor in the Department of Periodontics and Allied Dental Programs, congratulates dental assisting students (from left) Dee Ann Brittain, Kathy Plunkett, Jennifer Weber, and Patricia Friddle. Their clinic, entitled "The Cause, Effect, and Prevention of Nursing Caries," won the school's Best Dental Assisting Table Clinic Award.



Larry Farrell, representing the John O. Butler Company, congratulates Sue Kelly, an Oral Health Research Institute assistant director of clinical research, and Andrew Beiswanger, an OHRI research technician, for winning the Butler Company's newly established Staff Awards for Research Excellence. Ms. Kelly's clinic, "High Doses of Fluoride in Adults," was completed in association with Pettis Memorial Veterans Hospital in Loma Linda, Calif. Mr. Beiswanger's project was entitled "In Situ Enamel Fluoride and Mineral Changes Following Use of Fluoridated Dentifrices."



Procter and Gamble Co. representative Guy Bradley with second-year dental hygiene students (from left) Donna Knotts, Sandra McIlrath, Amy Price, and Susan Spencer. Their clinic, "Read My Lips: Sun-Induced Lip Cancer Is Preventable," won both the Procter & Gamble Table Clinic Award and the school's Best Dental Hygiene Table Clinic Award.

The dental school welcomed keynote speaker William H. Bowen, BDS, PhD, professor and chair, Department of Dental Research, and director, Caries Research Center, of the University of Rochester, New York. Dr. Bowen is an internationally respected oral biologist and authority in cariology research. He is a former chief of the Caries Prevention & Research Branch of the National Caries Program at the National Institute of Dental Research in Washington, D.C., and also a past president of both the AADR and the International Association for Dental Research.

In addition to displays by the researchers, representatives of 20 companies displayed commercial exhibits throughout the afternoon. An awards program saluted the top projects in a variety of student, faculty, and staff categories. The dental school gratefully acknowledges the John O. Butler Company, of Chicago, for supporting the newly established Staff Awards for Research Excellence, and the Wm. Wrigley Jr. Company for its support of the event. Information about the two faculty awards given by the IUSD Alumni Association appears elsewhere in the *Bulletin* (see page 19).



Dr. Rose Marie Jones, restorative dentistry faculty member and immediate past president of the Indiana Section of the AADR (left), poses with third-year student Michelle Wittler, winner of the Cyril S. Carr Dental Student Research Scholarship. (The scholarship, which is named for a 1916 graduate of the Indiana Dental College, was presented to Ms. Wittler earlier in the year, in part for research she conducted as a 1991 recipient of a training grant from the National Institutes of Health.)



Dental students Todd Hickman (left) and Eric Sputh, posing with Dr. Jones, won the 2nd place ADA/Dentsply Student Clinician Award for a clinic entitled "Evaluation of Basicranial Morphology and Alignment in Cleft Lip-Palate."



Procter and Gamble Co. representative Felix Parodi presents Dr. Margherita Fontana, a PhD candidate in preventive dentistry, with the Maynard K. Hine Award for Excellence in Dental Research, which is supported by Procter and Gamble. Dr. Fontana's clinic was entitled "Characterization of *Streptococcus mutans* Fimbriae and Antibody Response."



Dental student Tamara Watkins accepts the ADA/Dentsply International Student Clinician winner's plaque from Dentsply representative Michael Miller. This top award includes an expense-paid trip to the ADA's annual session, to be held in New Orleans in October. At that meeting Ms. Watkins will enter her clinic, entitled "Sterilizing the Inside of Metal Air/Water Syringe Tips," in the national competition.



Dr. Jones congratulates dental student Timothy Bussick, winner of the Indianapolis District Dental Society's Jack D. Carr Award, for his clinic entitled "Effect of an Anhydrous Cholesterolized Petrolatum Absorption Base on Mucosal Wound Healing."

A synopsis of Dr. Bowen's address, which was published in the Proceedings of the Second Annual Research Day, follows:

All available evidence shows that the prevalence of caries has declined among certain age groups. Out of this important observation has grown the perception that dental caries is no longer a public health problem. However, caries attack does not cease at age 12; results from epidemiological studies show that less than 5% of the population aged 18 to 65 is caries-free! Further epidemiological evidence shows that the incidence of caries in persons aged 30-50 does not differ greatly from that in younger groups. This observation should hardly elicit surprise.

Even though fluoride is a highly effective cariostatic agent, it does not confer absolute protection; furthermore, most of its effect resides in influencing the environment of the tooth with apparently relatively little effect on the caries attack per se. Therefore, we have an agent that does not confer absolute protection, and the caries attack continues throughout life. It is hardly surprising that caries continues to develop into old age.

This observation has enormous import. Life expectancy is increasing and, in addition, persons are retaining their teeth longer than heretofore. In addition, a large proportion of persons over age 60 take one or more prescription drugs which reduce salivary flow significantly, thereby enhancing their risk of developing caries.

As a result of the perception that dental caries has ceased to be a problem, many researchers look askance at pursuing a career in cariology. They erroneously believe that there are no more scientific challenges, that cariology is uninteresting and boring. The truth, however, is that some particularly intriguing scientific enigmas remain to be unraveled, not least of which are the concepts of caries resistance and caries susceptibility. Close interaction among scientists covering many disciplines will be imperative. In addition, active collaboration among clinical scientists and basic scientists is critical if we are to realize a truly caries-free population.

As we face the century's end with an aging population, the science of cariology is even more mystifying, more exciting, and above all, more challenging than ever.

Development Matters



Often I am asked what type of projects need to be funded by contributions to the IU School of Dentistry. What benefit is in it for the donor, some wonder, and what impact will the project have on the dental school and the oral health profession?

In this issue of the Alumni Bulletin, I'd like to tell you of one of our priority projects, and open a discussion of the tremendous impact that private investment in the IU School of Dentistry can have. I welcome your comments and input.

Indiana University School of Dentistry

John C. Gorman, Sr.,

Continuing Education Center

The IU School of Dentistry will honor the memory of a man who had a profound impact on dental education and practice with the development of the John C. Gorman, Sr., Continuing Education Center, to be located in the school's oral facial development clinic in the new Department of Oral Facial Development. This facility will fill a significant need, enabling practitioners to remain at the leading edge of the profession.

John C. "Jack" Gorman, a Marion, Ind., orthodontist and former president of the Indiana Dental Association who died in 1993, dedicated his professional lifetime to advancing knowledge in orthodontics. He was an innovator who helped develop lingual appliances in the early 1980s; he published more than a dozen papers on the subject. Jack believed that educating others to benefit patients was an integral part of his effort. He gave more than 50 lectures in the U.S. and also presented courses to orthodontists in France, Germany, Austria, Italy, Switzerland, South Africa, and Japan.

The John C. Gorman, Sr., Continuing Education Center realizes an outstanding opportunity to recognize Jack's passion while providing for state-of-the-art continuing education in a clinical setting.

A TREMENDOUS NEED

Organized dentistry in the state of Indiana has long been in need of a continuing education facility where new concepts and techniques can be readily applied in a clinic environment. There has been no facility to fit this need. When completed, the Gorman Center will seat 50 participants in a classroom setting; it will be housed adjacent to our new oral facial development clinic. The Center will offer the flexibility needed to teach a variety of subjects, and will be equipped with electronic and projection systems to accommodate the broadest range of presentations. The facility will be used by oral healthcare practitioners and researchers as well as faculty and students representing all areas of dentistry.

The clinic in the Department of Oral Facial Development is being built with commitment from the dental school and the department itself. In difficult financial times for institutions of higher education, we have identified income sources and effective money-management strate-

gies to provide for this expansion at a time when other education facilities are down-sizing and eliminating programs.

THE INVESTMENT

Indiana University is the center of dental education and research in the state and an internationally recognized leader in the profession of dentistry. The dental school relies on interaction with the corporate community and private practitioners to remain at the forefront of new knowledge and technique development. Our faculty and students value these relationships because they foster an atmosphere in which the profession can be changed for the better. This continuing education facility will benefit everyone involved.

While the University is investing its dollars and energies in the new clinic, funding for the John C. Gorman, Sr., Continuing Education Center must come from private sources. Each of us who will benefit from this facility is asked to consider a financial commitment that will serve as an investment in the future of oral healthcare.

Without this significant investment, we cannot maximize the financial commitment the University is making to this effort.

The IU School of Dentistry will fund this outstanding and necessary facility with contributions from alumni, friends, and the corporate community. Our intent is to offer those who will benefit from this center the opportunity to make a financial investment which, we believe, will pay great dividends for the oral healthcare profession. We will be sending alumni information regarding methods of investing in this project.

This effort will stand as a prime example of higher education and the private sector working together ultimately for the betterment of patient care. It is essential that we collaborate on this challenge.

Barry F. Smith
IUSD Director of Development

Thank
you



from the IU School of Dentistry

On the evening of May 5, 1994, several hundred friends and supporters of the IU School of Dentistry gathered in a new location—the Grand Ballroom of the Westin Hotel—to celebrate a time-honored event that has a new name—the IUSD Donor Recognition Reception.

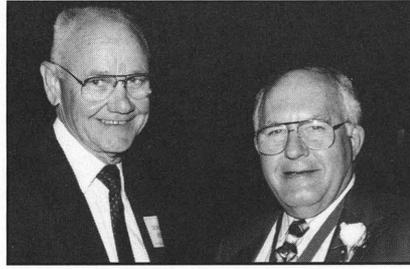
The name of this reception (formerly known as the Century Club celebration) has been changed to accommodate members of the newly established Dean's Associates, a group that recognizes donors who contribute \$1,000 or more to the school annually. There were 81 members of the Dean's Associates in its first year of existence, according to Lafayette dentist Richard Ellsworth (DDS'73), who chairs the new IUSD Development Committee.

The dental school faculty, staff, and students are grateful to every person and organization that make possible a variety of much-needed school programs and scholarships through the generosity of private donations.

More than 1,500 alumni and friends of the school contributed funds to IUSD in 1993. During this year's tribute, dental school photographer Mike Halloran captured on film a few of the faces belonging to this outstanding group of supporters. Some of those photos are shared in the following pages of the *Bulletin*.

IUSD 1994 Donor Recognition Reception

All identifications left to right



Drs. Donald Spees and Jim Worster



Dr. Ed and
Jane
Tweedle



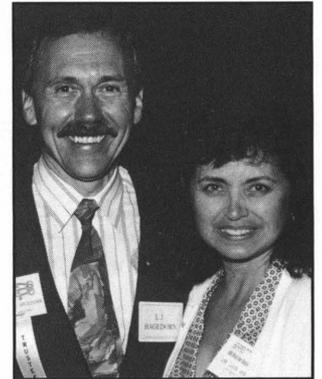
Drs. Tim Turner and Susan Mauk



Barry Smith, IUSD director of development;
Dr. Pamela Steed; IUPUI Chancellor Gerald
Bepko; and Dr. Steed's spouse, Peter Furno



Photo left: Dr. David
and Ellen Bussard with
Sharla and Dr. Jerry
Hickman



Drs. Lloyd and Jan
Hagedorn



Dr. Susan Zunt, Patricia Velasquez, and
Dr. Michael Hayduk



Drs. Kelley Carr and
Donald Johnson



Dr. LaForrest Garner with Dr. John and Lorraine
Borkowski



Tory and Dr. Thomas Cloyd



Dr. John and Rosemary Turchi



Dr. Darlene Vaughn with Debbie and Dr. Gary Gotsch



Drs. Dale Lentz and Kurt Van Winkle



Shirin Shirani and her spouse, Dr. Mostafa Analoui, with Drs. Al Potvin and Larry Garetto



Dr. Ben and Joan Fisher



Dr. Pete and Alice Leonard



Dr. Gay Derderian with Erin Hamm and Gail Williamson



Chalmer and Dr. Virginia Crose



Dr. and Mrs. Wade Anshutz, Jr.



Dr. Scott McDonald with Barbara and Dr. Jeffrey Dean



Drs. Gene Roberts and John Rahe with Dr. Richard D'Eustachio, president-elect of the American Dental Association



Dr. Bob Bogan and Betsy White



Drs. David Avery and James Frey



Drs. Larry Roberts, James Malooley, and Chuck Kerkhove



Dr. Henry and Theresa Swenson



Judy Goldblatt; Dr. Hala and Walter Henderson; and Mrs. Goldblatt's spouse, Dr. Larry Goldblatt



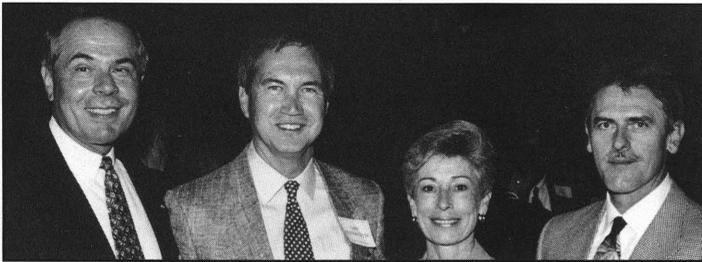
Dr. Miles and Trudy Standish with Drs. Lucreda and Charles Hutton



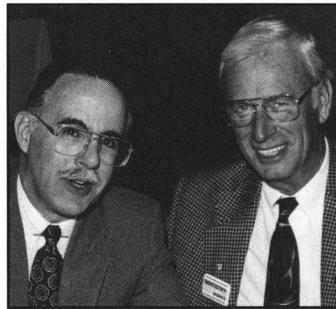
Dr. Kichuel and Wan Park with Katie Gilmore



Drs. Chuck Hassel and Jean Williams



Dr. Charles Tomich; Dr. Gary Schinbeckler; Dr. Tomich's spouse, Jackie; and Dr. Robert Sexton



Drs. Clay Stuckey and Robert Perry



Drs. Ed Laskowski and Don Greiner



Lillie and Dr. Willard Damm



Drs. Sybil Niemann and Marion Warpenburg



Photo left: Jeanne and Dr. John Szakaly with Drs. John and Marjorie Reuthe



Drs. William Lawrance, Chuck Gish, and Buck Buchanan



John Hearn and son, Tom



Mary Spilman, Nola Stookey, and Mrs. Spilman's spouse, Dr. Donn Spilman



Dr. Gregory and Monica Berger; Dr. Fred and Caroline Robbins; and Martha and Dr. Kenneth Dilger



Jerry Malooley Keller and Sonja Malooley



Heather and Kelly Jastremski



Nancy Modlin, Cathy Carr, and Jackie Hennigar



Dr. Russ and Patty Heyde



Mary Beth Driscoll and David Schmidt with Drs. Trudy Banta, Bill Gilmore, and Jerry Leer



Drs. Bob Stetzel and B.W. Asdell



Photo left: Treva Gish, Myrna and Dr. Chuck Smith, and Dr. Mark and Kathy Mallatt



Drs. David Sawyer and Bob Bogan



Dr. Brady Hancock, Kathleen O'Leary, and Dr. Hancock's spouse, Caryl



Drs. Chet Swimley, Robert Sexton, and Bill Keaton



Helen and Dr. Bob Detamore

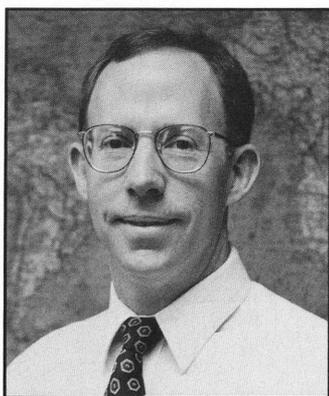


Max and Audrey Skirvin with Joan and Dr. Arden Christen



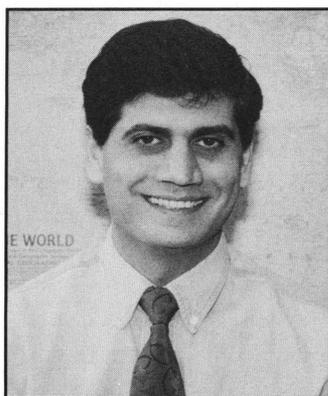
Sue Brinker, Jane Asdell, and Dr. Richard Rice

Postdoctoral Profiles



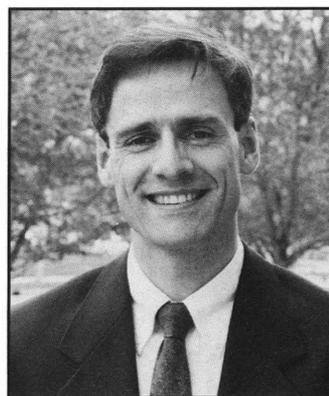
Thomas G. Oldag

Hometown: Elwood; **Dental training:** DDS, Indiana University, 1979; **Postgraduate program at IU:** endodontics (major), oral pathology (minor); **Thesis:** *Root canal working length determination using the RadioVisioGraphy monitor image;* **Degree:** MSD, June 1994; **Plans:** Will be stationed at Sheppard Air Force Base, Wichita Falls, Texas, with rank of Lt. Colonel.



Fadi G. Kyorkaji

Hometown: Damascus, Syria; **Dental training:** DDS, Damascus University, 1986; **Postgraduate program at IU:** operative dentistry (major), dental materials (minor); **Thesis:** *Evaluation of bond strength between resin and porcelain using a shear test;* **Degree:** MSD, June 1994; **Plans:** Private practice and part-time teaching in Damascus.



Máirtín Noel Brennan

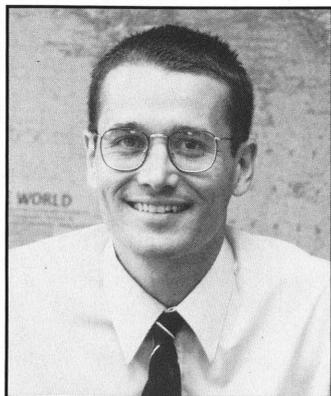
Hometown: Donegal Town, Co. Donegal, Ireland; **Dental training:** B.A., B. Dent. Sc., Trinity College, Dublin, 1982; **Postgraduate program at IU:** prosthodontics (major), dental materials (minor); **Thesis:** *Effect of four provisional cements and two cleaning methods on casting retention;* **Degree:** MSD, June 1994; **Plans:** Private practice in Dublin.



Nels Ewoldsen

Hometown: Remington; **Dental training:** DDS, Indiana University, 1978; **Postgraduate program at IU:** dental materials (major), prosthodontics (minor); **Thesis:** *Laboratory study of Type II light-cured glass ionomer cements as pit/fissure sealants;* **Degree:** MSD, June 1994; **Plans:** Has joined the faculty in restorative dentistry, University of Nebraska Medical Center College of Dentistry, Lincoln.

Photos by Susan Crum



Jose Oliveira

Hometown: Porto Alegre, Brazil; **Dental training:** DDS, Pontificia Universidade de Catolica do Rio Grande do Sul (PUC-RS), 1986; **Postgraduate program at IU:** operative dentistry (major), dental materials (minor); **Thesis:** *Effect of bonded amalgam restorations on the fracture strength of teeth;* **Degree:** MSD, June 1994; **Plans:** Part-time teacher at PUC-RS and part-time practitioner in Porto Alegre.

You're Invited

Heading for the American Dental Association's Annual Session in New Orleans in October?

If so, be sure to drop by the Indiana University Alumni Association's hospitality reception, which will be held at the New Orleans Hilton Hotel.

Reception details weren't final as of press time, so please check your ADA convention program for exact day, time, and room. The IU Alumni Association (Indianapolis office) telephone number is 317/274-8828.

The ADA's 135th Annual Session is scheduled for October 22-25.

Reflections

35 Years at Chairside: Greenwood dental hygienist Nancy Porter Blackburn talks about her school, her career, and her love of Hoosier basketball

Think back to (or try to imagine) dental hygiene school in the 1950s.

Both dental and dental hygiene students saw patients in the large third-floor clinic in the original part of the school (the building's two major additions still lay in the future). Most dental hygiene students lived in rooms on campus.

The dress code in those days demanded a flawless appearance: hair was not permitted to touch collars, caps were worn firmly in place, nails were trimmed, jewelry was forbidden, and uniforms were starched so stiff they could stand alone. No red-colored clothes were allowed, either, lest patients be reminded of blood.

These are *pleasant* memories for Nancy Porter Blackburn (ASDH'59), of Greenwood. Over the course of a recent evening at Nancy's home I listened as she reminisced about her school days and described her on-going affair with the dental hygiene profession.

The school's stringent dress code was so instilled in Nancy 35 years ago that even today she has difficulty practicing dental hygiene any differently. She tells of one Saturday morning when she was seeing patients and needed to leave immediately after work in Greenwood to catch an IU basketball game in Bloomington. To save time she decided to wear her red IU turtle-neck. She practiced as planned, but very uncomfortably—that "no red" lesson drummed into her as a student is still very much with her.

Being a student in the late '50s means that Nancy studied under A. Rebekah Fisk, IU's first director of dental hygiene. Her recollections of Miss Fisk include the director's unwavering desire for perfection. "If she came and checked your work in clinic, you wanted to be sure everything was perfect," says Nancy. "She had strict rules and you abided by them."

Nancy can't remember why she chose dental hygiene for her career. She may have been influenced by some family members who were involved in dentistry. A

grandfather, Julian Seal (DDS, 1897), practiced in Odon; and an uncle, Charles A. Seal (DDS, 1919), practiced in Indianapolis. The most probable influence, however, was her sister Carla Porter Totten (ASDH'55, BSDH'67), who has been a full-time IU faculty member since 1961. Nancy and Carla hold the distinction of being the first sisters to graduate from IU's dental hygiene program.

Upon graduation, Nancy dreamed of traveling. Along with some of her classmates she planned to conquer Denver, Colorado. The dream never materialized, but the opportunity to travel (at least to cross the Indiana border) arose when Nancy moved to Danville, Ill., to work for Dr. Donald Carpenter. This dentist, it seems, was acquainted with Miss Fisk, and he was extremely impressed with Indiana's highly educated dental hygienists. He always employed graduates of Miss Fisk's program.

When Nancy began her career in Illinois she lived at the "Y," but during the next three years she met and married her husband and had three children—Joe, now 33, and his twin sisters, Jenny and Joni, now 31.

Upon deciding to return to her hometown of Greenwood, Nancy made many futile attempts to find employment. Even Miss Fisk discouraged her return because of the lack of openings for hygienists in the Indianapolis area at that time. Nancy finally wrote to Dr. Ernest Mishler, the Greenwood dentist Carla had worked for before joining the IUSD faculty. The timing could not have been luckier: Dr. Mishler had a position open.

Nancy started her career in Dr. Mishler's office on December 9, 1962. She's still in the same office today, but the 'Dr. Mishler' has changed. Nancy now works with Dr. Mishler's son, Jeffrey A. Mishler (DDS'82). Dr. Ernest Mishler, a dental graduate of Northwestern University, retired after practicing for six years with Jeff.

Nancy enjoys the familiarity that comes from being in the same office for 32 years. Her stories are as numerous as her patients, but the longevity of her practice is best



A Dental Hygienist on the Horizon: Nancy Porter, IU Class of '59

illustrated when she talks about families by "generations." After recently seeing a 3-year-old, Nancy got some interesting news from the mother, who said, "You've just now taken care of the fourth generation of my family!" Nancy had been the dental hygienist for the child's mother, grandmother, and great-grandfather.

"As a qualifying note, I'd like to point out that these people weren't all 3-year-olds when they became my patients,"

Nancy says with a laugh. This is the second four-generation family in Nancy's care.

Nancy recently had occasion to be reminded of the impact dental professionals have on their patients.

A former patient of Dr. Ernest Mishler's who had been living in Florida for the past 25 years came in to the office a few days ago to have her teeth cleaned. While Nancy worked, the patient confided: "You know, I don't think I've ever had my teeth cleaned—*really* cleaned—since a gal in this office used to take care of me."

Nancy then casually brought the name of this patient's former Indiana neighbor into the conversation. "How did *you* know she had been my neighbor?" the patient asked.

"Because I'm that 'gal' who used to clean your teeth 25 years ago," Nancy told the stunned woman.

Staying current in dentistry's constantly changing atmosphere through continuing education has always been a priority for Nancy and the Mishlers. But some changes have been more difficult than others. Nancy found the deluge of OSHA regulations in the 1980s the most difficult change to adapt to, especially since she is allergic to latex gloves.

"Patients probably think my middle name is 'Floss.' But they can't want what they need if they don't know that they need it, or why they need it. It's up to us to provide the education."

Some advancements in dentistry have occurred without Nancy's participation, the most notable being that she still does stand-up dental hygiene. "When you learn standing up, you learn facing patients," Nancy said. "Sitting down, your relationship to all of the instrumentation changes. I found myself twisting more at the waist and having more problems with my back than when I worked as I was taught."

Nancy also hand-scales all of her patients instead of using an ultrasonic scaler. And her patients still use a cuspidor—a practice she says both she and they prefer.

Nancy and both Dr. Mishlers have stressed patient education in the practice. "I couldn't work on some of the fast-paced schedules I hear about in other practices," says Nancy. "I need to know I have done my best." With current concerns about periodontal disease, Nancy spends about an hour with all new patients after the doctor sees them, and much of that time is devoted to education.

"Patients probably think my middle name is 'Floss,'" she says. "But patients can't want what they need if they don't know that they need it, or *why* they need it. It's up to us to provide the education."

Both in her operatory and at her home, Nancy's greatest passion is evident: She loves Indiana basketball! In all the years that she has had access to tickets (her season tickets are now in the balcony) she can remember missing only one game. She has attended even when too ill to yell or clap. Her dedication has been recognized by Coach Knight—two letters from him are

framed and hanging on her basement wall. In one he thanks her for her concern and support, which she had shared with him in a previous letter, and the second acknowledges her birthday.

Patients are well-attuned to Nancy's zeal for Indiana basketball (one brought her a sympathy card when Purdue beat the Hoosiers). Before accepting social engagements during basketball season, she checks the game schedule. According to her sister, Nancy would rather be carried into the

Mike Halloran



In the family room of her Greenwood home, Nancy Blackburn is surrounded by some of her favorite Hoosier memorabilia. Two letters from Coach Bob Knight hang in the room amidst a collection of IU posters.

auditorium on a stretcher if necessary to avoid missing a game.

The same may be said for her work attendance. "When raising children you can't afford to lose work," says Nancy, who has been a single mom since 1970. Even though her kids are grown, Nancy is so indoctrinated by her work ethic that she still finds it hard to take an extra day off.

"I'm glad to have had a profession to support my children, but I worked at it," she says. "Dental hygiene is a profession that requires time, effort, and dedication."

Nancy's activities in organized dentistry include past stints as treasurer of the Indiana Dental Hygienists' Association and president of the Central Indiana Dental Hygienists' Association. Nancy has been involved with other components of dental hygiene, too, but chairside is her love. "I'm happy doing what I do," she says.

What advice, we ask, does Nancy have for a new dental hygienist or someone considering this career?

She answers: "Be in good health, enjoy what you are doing—and most of all, have patience with your patients, whether they are 3 or 93!"

Mary Leesa Rehmel

— Mary Leesa Rehmel,
IU Lecturer in Dental Hygiene

Bloomington + A Bunch of Buddies = A Bunch of Fun



IUSD Fall Dental Alumni Conference for Dental Hygiene and Dental Grads

*Bloomington, Indiana
September 29—October 1, 1994*

This year's special reunion celebration salutes graduates of dentistry and the dental hygiene program (IUPUI campus). You can help make this conference the best one ever by joining in the festivities with your family and friends. You should have received your registration material from the IU Alumni Association by now. For more information, contact the IUAA (Indianapolis office) at 317/274-8828.

Saluting IUSD's Newest Grads

Photos by Mike Halloran



Photo identifications left to right

OKU. New alumni members inducted into Theta Theta Chapter of Omicron Kappa Upsilon dental honor society (back row): David Painter, Clifford Martin, John Pritchett, and Timothy Bussick. Front: Angela Becker, Theresa Ross-Gonzalez, Marla Wilson, Sigrid Madding, Kathleen Smith, and Denise Flanagan. The 1994 award for Outstanding OKU Student was presented to Angela Becker.



Sigma Phi Alpha. New alumni members inducted into Theta Chapter of Sigma Phi Alpha dental hygiene honor society (back): Cynthia Manifold and Tammy Tisher. Front: Susan Spencer, Sandra Murphy, and Jennifer Lodovisi. OKU and Sigma Phi Alpha ceremonies were conducted during the annual awards banquet at the University Place Conference Center on April 20.

Indiana University-Purdue University Indianapolis Commencement and the IU School of Dentistry Honors Day Program

Held at the Indiana Convention Center and Hoosier Dome on May 15, 1994

Presiding over Honors Day Program: H. William Gilmore, dean of dentistry

Class addresses given by presidents:

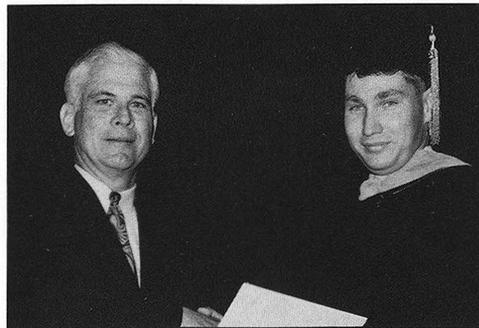
Kelly A. Jastremski, Dentistry

Cheryl A. Love, Dental Hygiene

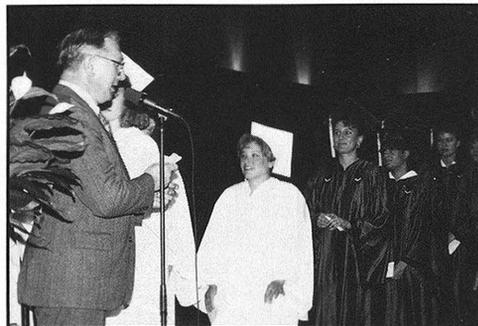
Monica R. McKim, Dental Assisting

Graduates of dentistry, dental hygiene, dental assisting, and graduate dentistry announced by:

E. Brady Hancock, chair, Department of Periodontics and Allied Dental Programs



Dr. Charles Nelson and Shawn Long



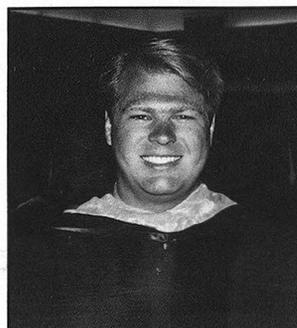
Dr. E. Brady Hancock announces dental assisting graduate Dee Ann Brittain

Graduating with High Distinction:

Angela R. Becker (DDS)
Sandra L. Murphy (ASDH)
Marla K. Wilson (DDS)

Graduating with Distinction:

Timothy J. Bussick (DDS)
Angela M. Creighton (ASDH)
Denise A. Flanagan (DDS)
Jennifer L. Lodovisi (ASDH)
Sigrid E. Madding (DDS)
Cynthia A. Manifold (ASDH)
George C. Mansfield, IV (DDS)
Diane C. Phifer (ASDH)
Theresa A. Ross-Gonzalez (DDS)
Kathleen A. Smith (DDS)
Susan Spencer (ASDH)



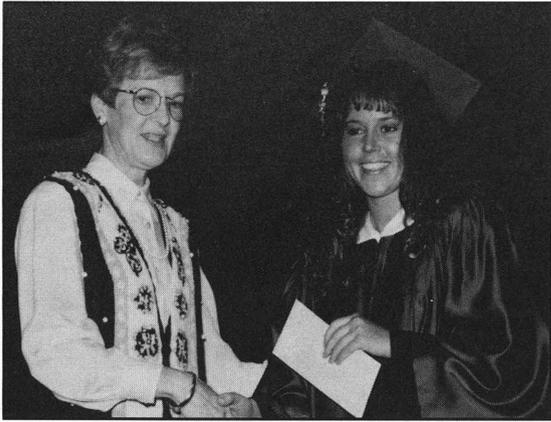
President Kelly Jastremski, Dentistry



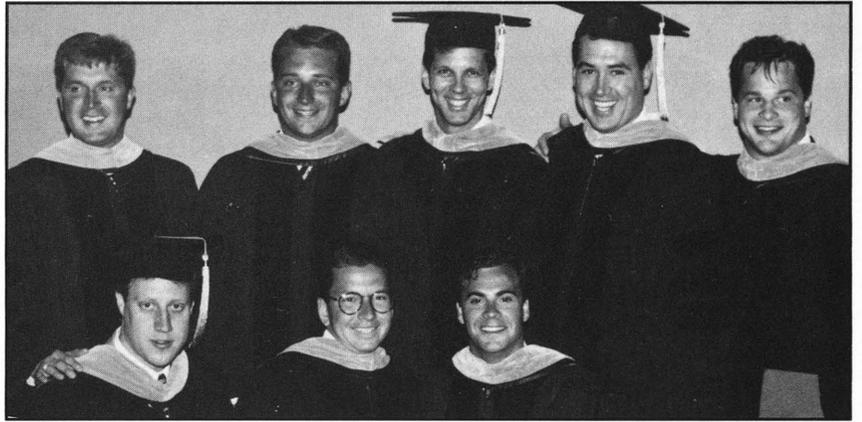
President Cheryl Love, Dental Hygiene



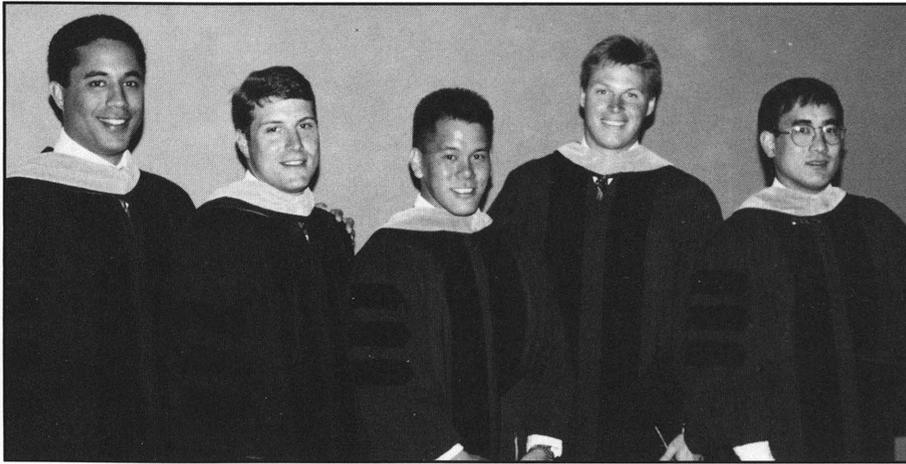
President Monica McKim, Dental Assisting



Professor Evelyn Oldsen and Kelli Ford



Standing: Tony Ratliff, Stephen Hall, David Schmidt, John Pritchett, and Steven Farnsley.
Kneeling: Ryan Ross, Derrick Johnston, and Mark Sitzman



William Enoka, Brian Oyler, Darryl Nishihara, Anthony Natalie, and Carl Futenma



Michelle Tompkins



Professor Oldsen and Charlotte Williams



Tod Moreton, Steven Farnsley, Richard Evanseck, Scott Findley, John Pritchett, George Mansfield, and Michael Milausnic

Awards presented during Honors Day and at other key events held throughout the spring:

Dental Assisting

DEE ANN BRITTAIN

Harriett F. Hine Clinical Achievement Award; in memory of the wife of Dr. Maynard K. Hine, IUPUI chancellor emeritus and dean emeritus of dentistry.

JENNIFER K. GOODWIN

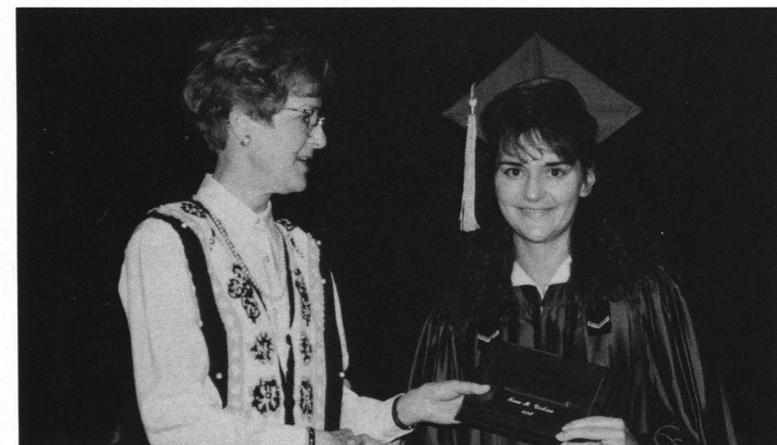
Harriett F. Hine Academic Award



Dr. Kichuel Park and Andrew Hawks, a recipient of one of four essay awards newly sponsored by The NutraSweet Company, of Deerfield, Ill.



Nahida Elsharaiha and Mellissa Laymance



Professor Oldsen and Anna Cochran

Dental Hygiene

ANNA M. COCHRAN

Hu-Friedy Clinical Achievement Award

Dr. Tillman E. Miller Clinical Achievement Award (co-recipient); in memory of 1980 IU dental graduate and Elkhart practitioner.

KELLI A. FORD

Johnson Public Health Dental Hygiene Scholarship Award (co-recipient); in memory of Frank and Jessie Johnson, parents of alumnus Dr. Donald W. Johnson, Carmel.

NANCY G. GOBEL

A. Rebekah Fisk Memorial Award of the Indiana Dental Hygienists' Association; named for IU's first director of dental hygiene.

SANDRA S. McILRATH

Rossya Kaufman Memorial Award (co-recipient); named for 1958 graduate of IU's dental hygiene program.

IUSD Alumni Association's Harriett F. Hine Award

SUSAN SPENCER

Procter & Gamble Co. Prevention Award

Johnson Public Health Dental Hygiene Scholarship Award (co-recipient)

CHARLOTTE M. WILLIAMS

Rossya Kaufman Memorial Award (co-recipient)

Dr. Tillman E. Miller Clinical Achievement Award (co-recipient)

Dentistry

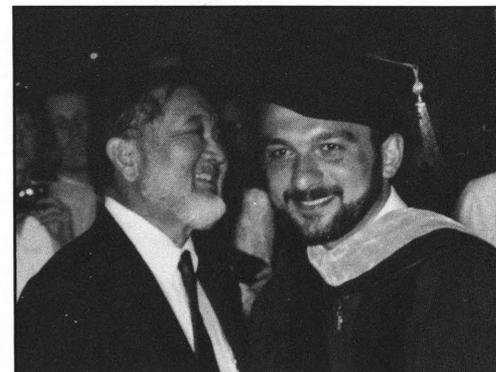
ANGELA R. BECKER

Alpha Omega International Dental Fraternity Scholarship Award

Jack D. Carr Memorial Award; named for 1939 IU dental graduate, Indianapolis dentist, and dental professor.

NutraSweet Company Essay Awards, 1st place ("Assessment of Osteoporosis Risk Factors in the Female Dental Patient: A Demographic Study")

Chancellor's Scholar Award; presented at IUPUI Chancellor's Honors Convocation, University Conference Center, April 29.



A handshake from Dr. Ray Maesaka for Serkis' Isikbay



Clifford Martin and Kenn Kaneshiro

TIMOTHY J. BUSSICK

American Academy of Periodontology Award

NutraSweet Company Essay Awards, runner-up ("Evaluation of Qualitative and Quantitative Methods for Characterization of Secondary Caries")

Pierre Fauchard Academy Indiana Section Award; presented during the Academy's annual meeting, Indiana Convention Center, Indianapolis, May 5.

RODERICK R. DOWDEN

Quintessence Publishing Company Award for Clinical Achievement in Restorative Dentistry

Dr. Tillman E. Miller Clinical Achievement Award

PIPER C. CLARK

James L. Maus Memorial Scholarship Award (co-recipient); in memory of owner of Maus and Elam Dental Laboratories.

DENISE E. FISHER

Indiana Society of Pediatric Dentistry Award

DENISE A. FLANAGAN

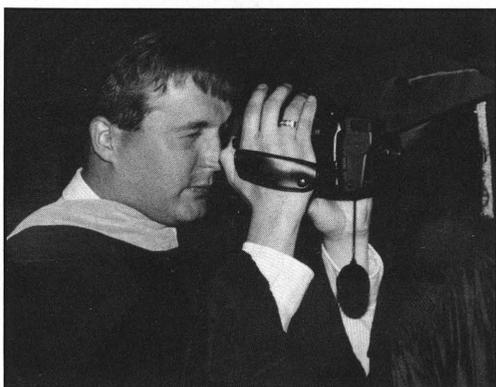
Quintessence Publishing Company Award for Clinical Achievement in Research

Glenn J. Pell Award of the Indiana Society of Oral and Maxillofacial Surgeons; in memory of 1912 Indiana Dental College graduate and long-time faculty member.

American Academy of Oral Pathology Award

American Academy of Oral Medicine Award

International College of Dentists Award



Tony Ratliff

THERESA A. ROSS-GONZALEZ

American Association of Women Dentists Award

American Association of Public Health Dentistry Award

Organization of Teachers of Oral Diagnosis Award

STEPHEN S. HALL

Dr. Charles B. and Janice E. Kem Award; in memory of 1929 IU dental graduate, and in honor of Dr. Kem's wife



Denise Fisher



Nancy Gobel and Professor Oldsen



Piper Clark

ANDREW T. HAWKS

NutraSweet Company Essay Award, runner-up ("From Gross Anatomy to Molecular Anatomy and Back: A Teaching Paradigm")

SERKIS C. ISIKBAY

Quintessence Publishing Company Award for Clinical Achievement in Periodontics

John F. Johnston Award; in memory of 1921 Indiana Dental College graduate and former head of fixed and removable partial prosthodontics.

American Association of Orthodontists Award

Procter & Gamble Co. Table Clinic Award ("Templates Indicating Path of Placement: Simple, Accurate, Quick and Optimal!")

IUSD Alumni Association's Maynard K. Hine Award

KELLY A. JASTREMSKI

Indiana Dental Association Award

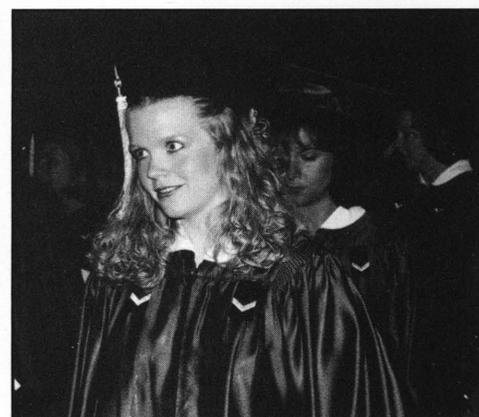
DERRICK A. JOHNSTON

American Academy of Oral and Maxillofacial Radiology Award

Indianapolis General Dentistry Study Club Award

JAN STEFAN LABEDA

Dentsply International Merit Award



Laura Haisell

SHAWN R. LONG

American Association of Oral and Maxillofacial Surgeons Award

American Society of Dentistry for Children Certificate of Merit and Indiana Chapter Award

GEORGE C. MANSFIELD, IV

Academy of Dental Materials Award

M. LYNN MOEHL

American College of Dentists Essay Award; presented during the Indiana section's annual meeting, IUSD, March 5.

TOD R. MORETTON

American Association of Endodontists Award

FARIBORZ B. NASSERI

Academy of Operative Dentistry Award

American Academy of Gold Foil Operators Award

ANTHONY S. NATALIE

Academy of General Dentistry and Indiana Chapter Award

DAVID D. PAINTER

International Congress of Oral Implantologists Award

Indiana Society of Periodontists Award

Certificate of Merit Award, American Academy of Dental Practice Administration and the Organization of Teachers of Dental Practice Administration

MARK A. SITZMAN

American Equilibration Society Achievement Award

NutraSweet Company Essay Award, runner-up ("Professionalism and Ethical Conduct")



Corina McNicholl and Tonya Stewart



Ryan Ross, Rusty Dowden, and Al Miller



Kelley Beckett (foreground)



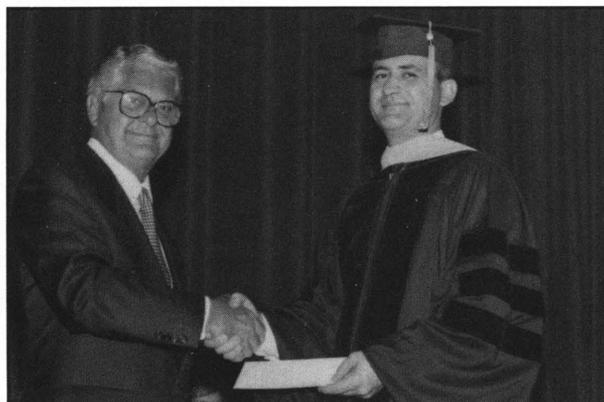
Jennifer Goodwin with Professor Pauline Spencer



Todd Duncan



Dr. H. William Gilmore and Judith Waskow



Dr. M. John Borkowski and Jan Labeda

Honors Day Presenters

M. John Borkowski, part-time assistant professor of prosthodontics

Max C. Burke, of Carmel, past president, Academy of General Dentistry

James B. Carr, of Carmel, son of the late Dr. Jack Carr

Jeffrey A. Dean, assistant professor of pediatric dentistry

James D. Frey, of Fort Wayne, president, Indiana Dental Association

H. William Gilmore, dean of dentistry

Karl W. Gossweiler, of Speedway, representing the International College of Dentists

Jonathan L. Gray, clinical assistant professor of periodontics

Hala Z. Henderson, associate dean for academic affairs

William F. Hohlt, assistant professor of orthodontics

Roger L. Isaacs, of Bloomington, president-elect, IUSD Alumni Association

William Kem, of Gainesville, Fl., son of the late Dr. Charles Kem

Jeffrey A. Linderman, part-time instructor, Department of Restorative Dentistry, representing Alpha Omega International Dental Fraternity

Raymond M. Maddox, part-time assistant professor of preventive and community dentistry

B. Keith Moore, professor of dental materials

Charles L. Nelson, chair of the Department of Surgery and Hospital Dentistry

Evelyn R. Oldsen, director of dental hygiene

Kichuel K. Park, professor of preventive and community dentistry

Philip C. Rake, acting chair of the Department of Restorative Dentistry

Charles E. Smith, director of the dental division, Indiana State Department of Health

Pauline R. Spencer, director of dental assisting

Donald R. Tharp, associate dean for clinical affairs

Margot L. Van Dis, associate professor of dental diagnostic sciences

Michigan Street Memos

Van Dis, Gregory Honored by IUSD Alumni Association

Dr. Roger L. Isaacs, president-elect of the IUSD Alumni Association, presents annual faculty awards to Drs. Margot Van Dis and Richard Gregory.

Photos by Mike Halloran



Two Indiana University faculty members have been recognized by the IU School of Dentistry Alumni Association for their outstanding contributions to the dental school.

Dr. Margot L. Van Dis, associate professor of dental diagnostic sciences, has received the Association's Distinguished Faculty Award for Teaching; and Dr. Richard L. Gregory, associate professor of oral microbiology (School of Dentistry) and of pathology and laboratory medicine (School of Medicine), has received the Distinguished Faculty Award for Research.

The awards were presented to the teachers in front of hundreds of their colleagues and students at the dental school's annual Research Day conference in March. (For the past several years these annual awards were given during the Fall Dental Alumni Conference in Bloomington.)

Dr. Van Dis is a dental graduate of the University of Michigan and a recipient of a master's degree in diagnostic sciences from the University of Texas Health Science Center at San Antonio. She joined the IU faculty in 1990 after teaching for five years at The Ohio State University. She is a co-author of several dental textbooks.

Dr. Van Dis is certified by the American Board of Oral Medicine as well as the American Board of Oral and Maxillofacial Radiology, for which she currently is serving a five-year term as director. She is the first woman to be elected to this national post.

As both a lecturer and a clinical instructor at IU, Dr. Van Dis instructs dental students enrolled at all levels in the four-year educational program.

Dr. Gregory taught at Emory University School of Postgraduate Dentistry in Atlanta, Ga., before coming to IU. He holds a master's degree and a PhD degree in microbiology and immunology from Southern Illinois University, and he also completed a two-year program in mucosal immunology at the University of Alabama at Birmingham. Dr. Gregory's work is the subject of an article beginning on page 30.

Dr. Gregory has been the primary investigator for several research grants, including grants from the National Institute of Dental Research, a branch of the National Institutes of Health.

Dr. Gregory is a charter member of the Society for Mucosal Immunology and the American Association of Oral Biologists. In April he assumed the presidency of the Indiana section of the American Society for Microbiology. He will preside for two years. He has also begun a one-year appointment as president of the Indiana Section of the American Association for Dental Research.

Following are the award recipients' remarks, which traditionally are published in the *Alumni Bulletin* so that they may be shared with the alumni at large.

Remarks by Dr. Van Dis: *I would like to thank the Alumni Association for this prestigious award. I am especially grateful because I am a relative newcomer to the IUSD faculty, and to be recognized in this way by my peers in a distinct honor.*

Dental education is changing rapidly, both at IU and across the country. It is sometimes difficult to keep abreast of all the technological and pedagogical innovations that are taking place, and it is even more difficult to incorporate these changes into course work or a clinical setting.

The greatest challenge for dental educators is to produce students who are technically excellent and have the skills to be the life-long learners they will need to be in the future. The development of such skills depends on students who are willing to take responsibility for their learning and teachers who are willing to set the highest achievable standards. I am pleased to report that the students and faculty at IUSD are up to the challenge.

As dentistry and healthcare in general move into the 21st century, the alumni of the IU School of Dentistry can be proud to be affiliated with an institution that continues to be dedicated to the educational standards that promote quality patient care.

I appreciate your recognition of my small role in this process, and I will do my best to maintain our school's reputation for excellence.

Remarks by Dr. Gregory: *I feel honored and flattered to have been selected as a recipient of this award. It is extremely satisfying to be recognized by ones' peers in this manner.*

I feel strongly that we all are products of our mentors and perhaps it is appropriate to give them credit. I have had several research mentors in my career. My earliest was Dr. Isaac Shechmeister, who is a learned Russian, a philosopher at heart, and now a professor emeritus of microbiology at Southern Illinois University. He taught me the importance of being a complete individual—in every day life as well as in my career. (One does not want to be known solely for one's work as a scientist.)

My next mentor was Dr. Suzanne Michalek, of the University of Alabama at Birmingham. As one who studies every conceivable angle of every task she undertakes, Dr. Michalek taught me to work hard and do a complete job on every project.

continued next page

Lastly, Dr. Roland Arnold, a professor of oral biology and associate dean for research at the University of North Carolina at Chapel Hill, has been both a good friend and mentor. Like Dr. Shechmeister, he also taught me the importance of being well-rounded—but particularly in science.

All three of these scientists have had great roles in forming my career.

Research is no longer a one-person journey. My greatest appreciation for my work here at IU goes to Linda Gfell, a senior research technologist in my research laboratory. She has directed the laboratory with great skill when I am gone and even when I am at work! She has managed to keep all of our projects in place and on track.

The greatest thing an academic researcher can do is mentor new scientists. I have been blessed with a large number of students working in my laboratory, first at Emory University and then here at IU. The relationship is indeed a two-way street. I learn as much from them as I hope they learn from me. The most significant advantage I get from these relationships is enthusiasm for research. Students express enthusiasm for learning research and it is “infectious.” (I also repeatedly contract the research bug!)

I thank you again for your recognition of my small contribution to the IUSD research program.

Surgery Dept Hosts 3rd Annual Hine Meeting



Dr. Chris Scures, national president, American College of Dentists



Photos by Mike Halloran

Dr. Mark Wohlford (right) accepts a research scholarship from Dr. M. Gilbert Eberhart, president of the ACD Indiana Section.

Last March the Indiana Section of the American College of Dentists (ACD) and the IU dental school once again co-sponsored the Maynard K. Hine Scholarship Lecture and Dinner, with the school's Department of Surgery and Hospital Dentistry serving as host for the third annual meeting.

Held at the school with evening activities at the Columbia Club, the meeting honored IUPUI Chancellor Emeritus and Dean Emeritus Maynard Hine, who was in attendance.

Joining in the event this year was Dr. Chris C. Scures, Orlando, Fl., national president of the ACD.

Three lecturers led the continuing education portion of the meeting, including Dr. Myer Leonard, a professor at the University of Minnesota and head of oral and maxillofacial surgery at Hennepin County Medical Center in Minneapolis. Dr. Leonard's presentation was entitled “Ups and Downs, Joys and Grievs of Office Oral Surgery.” Dr. Donald H. Newell, IU assistant professor in the Department of Periodontics and Allied Dental Programs, discussed “Periodontal Surgery for Esthetics”; and Dr. Donald E. Arens, IU director of dental continuing education and associate professor in the Department of Restorative Dentistry, presented “Modern Concepts of Endodontic Surgery.”

The ACD customarily presents a \$1,000 scholarship to a faculty member or graduate student in the host department. This year's scholarship went to Dr. Mark E. Wohlford, an assistant professor of oral and maxillofacial surgery who was appointed to IU's faculty two years ago. He is a graduate of The Ohio State University's four-year oral and maxillofacial surgery program as well as the PhD degree program in pathology. Dr. Wohlford plans to apply the ACD award to graduate student research projects looking at pathogenesis of central giant cell granulomas.

Recipient of the ACD's annual \$200 essay award was fourth-year dental student M. Lynn Moehl. To win this competition students submit papers on the subject of ethics in dentistry. Ms. Moehl presented her winning paper at the meeting.

The dental materials division of IU's Department of Restorative Dentistry will host the '95 Hine Scholarship Lecture, which is scheduled for March 4.

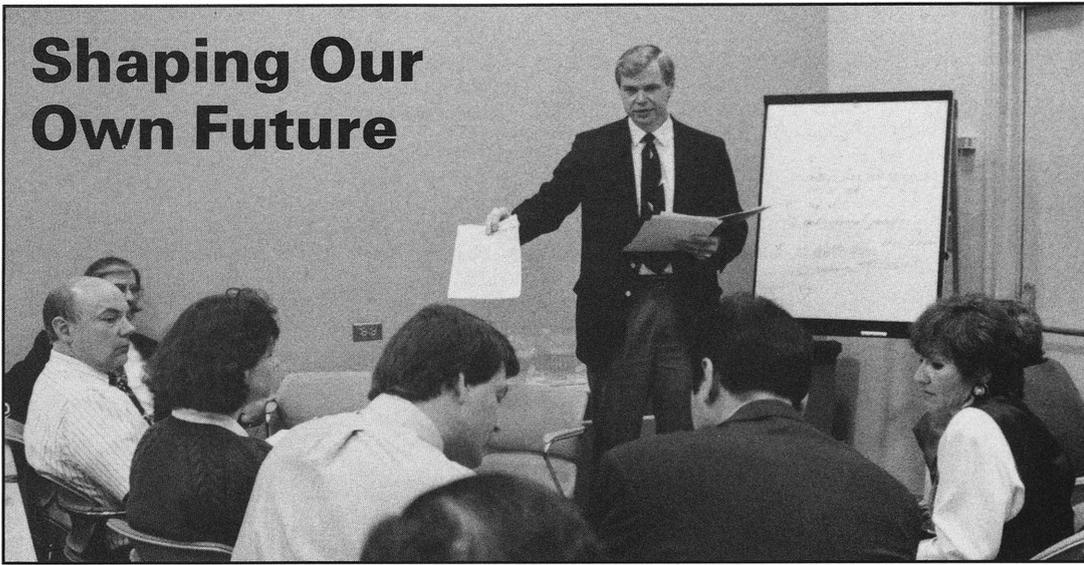


Hine lecturers, from left: Drs. Donald Newell, Myer Leonard, and Donald Arens



Dr. B. Charles Kerkhove, a member of the ACD Foundation's board of directors, presents dental student M. Lynn Moehl with a monetary award for her winning essay.

Shaping Our Own Future



Dr. Mark Saxen leads one of six faculty discussion groups charged with the task of writing clinical competency statements for the IU School of Dentistry.

“Dental education will never be the same again. The only constant will be change itself.”

It’s a message that grows more familiar each day to dental school faculties throughout the nation. At IU, it surfaced again most recently in the opening remarks of Dr. Dominick DePaola, president and dean of Baylor University College of Dentistry. He was invited to Indiana by Dean H. William Gilmore to address the dental faculty at a meeting held at University Place Conference Center on May 4.

Dr. DePaola is a well-known leader in dental education and author of a recently published article* entitled “Dental Schools Are Members of the Academy: Survival Demands a Primary Focus on Scholarship.” He shared with the Hoosier faculty a series of curricular changes being implemented at Baylor to lend insight into IUSD’s own challenge of reexamining and rewriting its dental curriculum, which is a key component of the school’s strategic plan that will be described in greater detail in the next issue of the *Alumni Bulletin*.

Dr. DePaola listed 10 major factors he sees as influencing dental education and clinical practice in America today, including the changing prevalence of oral disease, healthcare reform, and decreasing federal and state support.

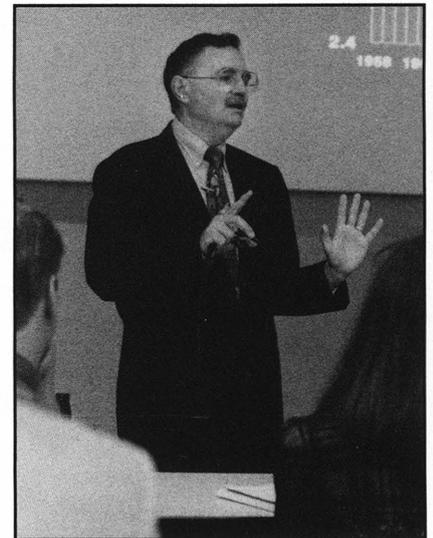
“Competencies need to be redefined,” he said.



Above right: Guest speaker Dr. Dominick DePaola, dental dean of Baylor University, stressed the importance of dental faculties having a clear understanding of how their schools contribute to the mission of their parent universities.

Left: Dean Gilmore ushered in a surprise visitor during the faculty conference—Indiana University President-elect Myles Brand, who happened to be at the University Place Conference Center on other business. Dr. Brand, who has been serving as president of The University of Oregon, extended warm greetings to the dental faculty. His appointment as IU’s 16th chief executive is effective August 1.

Which was exactly the mission at hand for IU’s faculty during the workshop portion of the conference. Dividing into small groups, the faculty went to work on devising clinical competency statements appropriate for each of the school’s six departments. Discussion leaders were Dr. Edward J. DeSchepper, restorative dentistry; Dr. Jonathan L. Gray, periodontics and allied dental programs; Dr. Richard L. Gregory, oral biology; Dr. Ronald R. Hathaway, oral facial development; Dr. Mark A. Saxen, stomatology; and Dr. Mark E. Wohlford, surgery and hospital dentistry.



Each department representative then presented to all conference participants an overview of individual group progress, with the knowledge that further refining of the documents would continue after the meeting. The departmental statements were to be ready for faculty-wide distribution at a subsequent Faculty Competency Conference scheduled for June 30.

The conference ended with closing remarks by Dr. Trudy Banta, IUPUI’s vice chancellor for planning and institutional improvement. She voiced encouragement for faculty sessions such as those the dental school has been conducting. In her post she focuses on changes occurring at the institutional level—changes that are based on the needs of society as well as students. “Faculty development is a very important aspect of this process,” she said.

*Dr. DePaola’s article is a “must read” for anyone with an interest in the future direction of dentistry and dental education. See the *Journal of Dental Education*, Vol 58, No 1, 1994, pgs 7-11.

August 31

CE-289 Advanced Periodontic Preceptorship for Dentists (first in a series of 5 meetings)

Dr. E. Brady Hancock, IU chair, Department of Periodontics and Allied Dental Programs, and faculty

September 7

CE-290 Tobacco Intervention Strategies for Dental Offices

Dr. Arden Christen, IU professor, Department of Oral Biology

September 8-10

CE-291 Regaining Pleasure and Success with Complete Dentures

Dr. W.F. "Jack" Turbyfill, West Columbia, S.C.

September 17

CE-293 Treatment with an Oral Device for Patients Who Snore and/or Experience Obstructive Sleep Apnea

Dr. H. Edward Lyon, University of Kentucky

September 23

CE-294 Current Concepts in Operative Dentistry Using Adhesive and Bonding Materials

Dr. John Kanca, creator of the "Kanca Technique," Middlebury, Conn.

September 30

CE-295 A Study of Healthcare Reform for Providers and Small-business Owners (Held in Bloomington as part of the IUSD Fall Dental Alumni Conference)

Dr. David Weinschrott, Hudson Institute, and Dr. Michael Hostetter, Associated Urologists, Inc., both of Indianapolis

October 1

CE-295 Review of Table Clinics (Held in Bloomington as part of the IUSD Fall Dental Alumni Conference)

IUSD Faculty

October 5

CE-296 Headaches, Neck Pain, and the TMJ Connection

Dr. Orbrey Phipps, owner, Back Pain and Headache Clinic, Indianapolis

October 5

CE-297 Radiology for Dental Personnel (Lecture)

IU faculty Gail Williamson, associate professor, and Dr. Edwin Parks, assistant professor, Department of Stomatology

October 7

CE-298 Dental Hygiene Series: Smarten Up! Sharpen Up! (lecture/workshop)

Trudy Short, Baylor University

October 14

CE-300 Treating Your Practice Like a Business

Dr. Carl Caplan, Georgetown University

October 14

CE301 AGD Hoosier Concept '90s and Beyond: Pre-adolescent Dentistry and Interceptive Orthodontics (review)

Dr. David Avery, professor, Department of Oral Facial Development

October 15-17

CE-301 AGD Hoosier Concept '90s and Beyond: Fixed Prosthetics and Restorative Dentistry Update

Dr. Clifford Fox, Akron, Ohio

October 21

CE302a It's Not Business as Usual Anymore! (limited to orthodontists)

Dr. Jerry Clark and William Curtis Sutton, Orthodontic Management Group, Greensboro, N.C.

October 21

CE302b Your Survival Depends on Your Team!

Regina Clark, Orthodontic Management Group, Greensboro, N.C.

October 21,22

CE303 Fundamentals of Non-Surgical Periodontal Therapy (Held in Gatlinburg, Tenn., and co-sponsored with the Continuing Education Department of the University of Tennessee Graduate School of Medicine)

Dr. Jacob Shiloh, University of Tennessee

October 22-25

American Dental Association Annual Session, New Orleans

October 29

CE304 CPR: Basic Life Support for Dentists and Auxiliaries

Sue Kelly, IU's assistant director of clinical research, Oral Health Research Institute

November 3,4

CE306 Advanced Endodontic Concepts, Technology, and Techniques (lecture/workshop)

Dr. Donald Arens, associate professor, Department of Restorative Dentistry, and guest lecturers

November 11

CE307 Bonded Amalgam = Materials and Techniques

Dr. Thomas Arnold, MION International Corp., Winslow, Ind.

November 16

CE305 Dental Hygiene Series: "The Medically Compromised Patient" and "Recognition, Management, and Treatment Recommendations of Oral Lesions"

IU faculty Dr. John Valentine, clinical assistant professor, and Dr. Susan Zunt, associate professor, Department of Stomatology

November 18

CE308 Indiana Dental Association/IUSD Academy of Continuing Education: New Horizons in Clinical Periodontics

Dr. Jon Suzuki, dental dean, University of Pittsburgh

December 3

CE311 New Age Concepts in Conservative Esthetic Dentistry

Dr. Harald Heymann, University of North Carolina

1995

January 4

CE317 Radiology for Dental Personnel (Lecture)

Professor Gail Williamson and Dr. Edwin Parks

January 6

CE317 Radiology for Dental Personnel (Laboratory)

Professor Gail Williamson and Dr. Edwin Parks

January 20

CE318 Endodontic Problem Solving: Prevention and Management (Held in Scottsdale, Ariz., and co-sponsored with the University of Washington, Seattle)

Dr. James Steiner, University of Washington

January 30-February 13

CE319 14-day Panama Canal Cruise (co-sponsored with the Indiana University School of Medicine)

February 1

CE323 Advanced Pain and Anxiety Management for the Dental Specialist

Dr. Mark Saxen, IU assistant professor, Department of Stomatology; and Dr. Ronald Redden, University of Texas, Houston

February 3,4

CE321 Endodontic Surgery for the General Dentist (lecture/workshop)

Dr. Donald Arens

February 4

CE320 CPR: Basic Life Support Retraimer Course for Dentists and Auxiliaries

Sue Kelly

February 10,11

CE322 Lingual Appliances: A Typodont Workshop (limited to orthodontists)

IU faculty Drs. J. Courtney Gorman and Gordon Arbuckle, assistant professors, Department of Oral Facial Development

February 23-26

The 1995 Chicago Mid-Winter Meeting

March 3,4

CE326 Jarabak Memorial Lecture

Dr. James Hilgers, Mission Viejo, Calif.

March 4

CE327 Maynard K. Hine Scholarship Lecture and Dinner: "Preventive and Restorative Decision Making in the '90s and Beyond," "Reducing the Risk of Restoration Failure," and "Metals, Metal-Ceramics, Ceramics, and Polymers for the 21st Century" (co-sponsored with the Indiana Section of the American College of Dentists)

Dr. Kenneth Anusavice, University of Florida

March 23-26

Thomas P. Hinman Meeting (Held in Atlanta, Ga.)

March 17

CE333 Dental Hygiene Series: Periodontics—from Diagnosis to Surgery

Dr. Donald Weissman, North Aurora, Ill.

March 24

CE334 Practical, Predictable Restorative Excellence with Esthetic Inlays and Onlays

Dr. Ronald Jackson, Middleburg, Va.

April 7

CE336 Managing Traumatic Injuries to the Dentition: Bruised, Broken, and Bedeviled Teeth

Dr. Anthony DeAngelis, Hennepin County Medical Center, University of Minnesota

April 12

CE337 Taking In or Becoming an Associate or Partner

Dr. Bernard Fink, Burke, Va.

April 21

CE340 Dental Hygiene Series: The Role of the Hygienist in Recognizing and Managing the Medical Emergency

Dr. James Swift, University of Minnesota

April 22

CE343 CPR: Basic Life Support for Dentists and Auxiliaries

Sue Kelly

May 10

CE347 Radiology for Dental Personnel (Lecture)

Professor Gail Williamson and Dr. Edwin Parks

May 12

CE347 Radiology for Dental Personnel (Laboratory)

Professor Gail Williamson and Dr. Edwin Parks

June 2

CE350 IDA/IUSD Academy of Continuing Education: Achieving Esthetic Fixed Implant Restorations

Dr. Daniel Sullivan, Washington, D.C.

LOOKING AHEAD

September 13, 1995

Practice Management

Jennifer de St. Georges, Jennifer de St. Georges & Associates, Inc., Monte Sereno, Calif.

September 29, 1995

Dr. Gordon Christensen, Provo, Utah

October 7-10, 1995

ADA Annual Session, Las Vegas

October 11, 1995

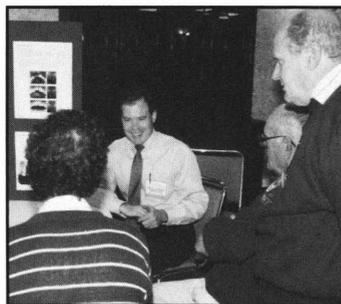
Radiology for Dental Personnel (Lecture)

Professor Gail Williamson and Dr. Edwin Parks

December 8, 1995

IDA-IUSD Academy of Continuing Education presents Taking the Stress Out of Bonding: A Recipe for Success

Dr. K. William "Bud" Mopper, Winnetka, Ill.



Pediatric dentist and IU faculty member Brian Sanders (background) presenting a clinic at last year's Fall Dental Alumni Conference in Bloomington.



Dr. David Brown, IU associate professor of prosthodontics, discusses his clinic with a group of '93 fall conference participants. The 1994 conference is scheduled for September 29-October 1.



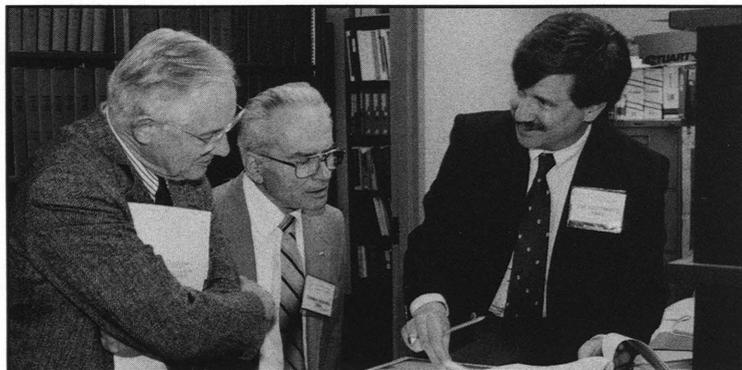
Dr. Robert Matthews, an IU graduate student in periodontics, points out details of his clinic at last year's fall conference. Alumni earn continuing education credits by signing up for the C.E. program at this annual getaway in Bloomington.

For more information about courses, fees, credits, and registration, write to Dr. Donald E. Arens, Director of Continuing Education, Indiana University School of Dentistry, 1121 West Michigan Street, Indianapolis, IN 46202; or call (317) 274-7782.

(all courses held in Indianapolis unless otherwise stated)

IU School of Dentistry Alumni Association's Professional Development Program

On a sunny Saturday last April, more than 150 IU grads took advantage of their Alumni Association membership to explore the dental school, interact with the faculty, and earn 5 C.E. credits.



Dr. James Hartsfield (right), a geneticist in the oral facial development department, welcomes William Lawrance (DDS'47) and Thomas Beavers (DDS'44) to the new molecular biology laboratory on the dental school's second floor.

IU Alumni Association members participated for free. For others, the cost of dues for one year's membership in the Association got them through the door of the dental school on April 23 for a day-long program tailor-made for alums of IUSD.

First offered one year ago, the professional development program nearly tripled in size this year, attracting about 175 persons. Grads came from as far north as South Bend (such as David Varner, DDS'76), from as far south as Evansville (Gordon Kelley, DDS'64), and from scads of cities and towns in between. The group included about 30 alumni either joining the Association for the first time or renewing their membership.

**First offered one year ago,
the professional development
program nearly tripled in size
on its second try, attracting
about 175 persons.**

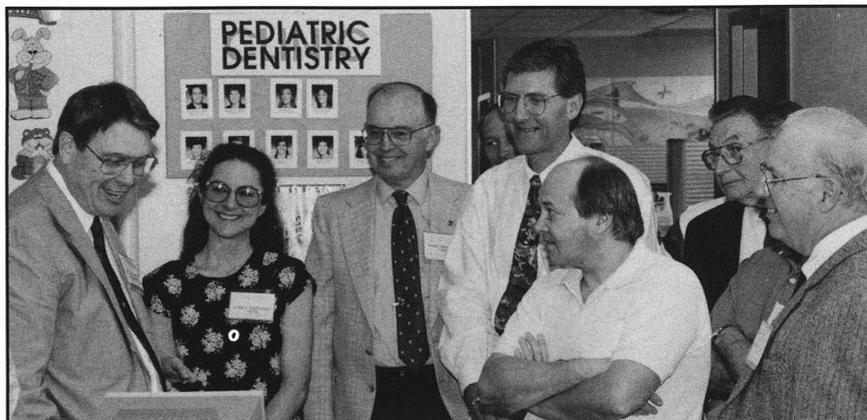
Research posters and table clinics were set up around the building so that alumni could roam from one territory to the next at their leisure, with ample opportunity to indulge in a continental breakfast and chat with faculty and postdoctoral students presenting clinics.

After a buffet luncheon the group repaired to a large lecture hall, where four faculty members and a former graduate student presented a series of lectures. Lecturers and their topics were:

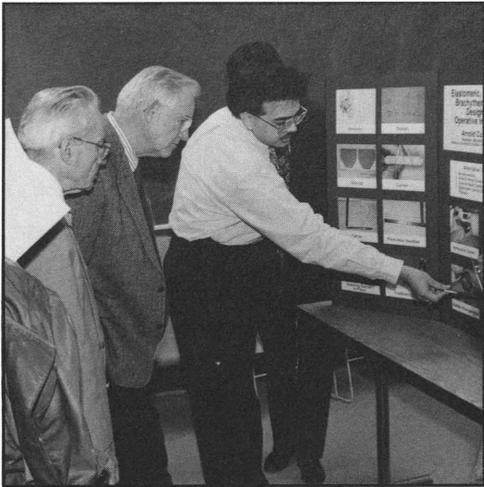
- Dr. Janet Hock, senior scientist in Skeletal Diseases Research at the Lilly Research Laboratories of Eli Lilly and Co., and an adjunct professor of periodontics at IU; and Dr. Joseph Bidwell, assistant professor of anatomy (IU School of Medicine) and of periodontics (IU School of Dentistry), presenting "Advances in Molecular Biology and How It Relates to Bone Formation."
- Dr. Cecil Brown, IU associate professor of endodontics, presenting "Current Concepts in Endodontics."
- Dr. Gordon Arbuckle, IU assistant professor of orthodontics, presenting "Filling a Therapeutic Gap: Implant Research."
- Dr. Nels Ewoldsen (DDS'78, MSD'94), instructor in adult restorative dentistry, University of Nebraska, presenting "Does the Current Research on Glass Ionomers Substantiate Their Clinical Use?"



Dr. Tim Carlson (back to camera), an operative dentistry faculty member in restorative dentistry, discusses a 10-year clinical study of glass ionomer restorative materials.



Dr. David Avery (left) with participants in the pediatric dentistry section of the oral facial development department



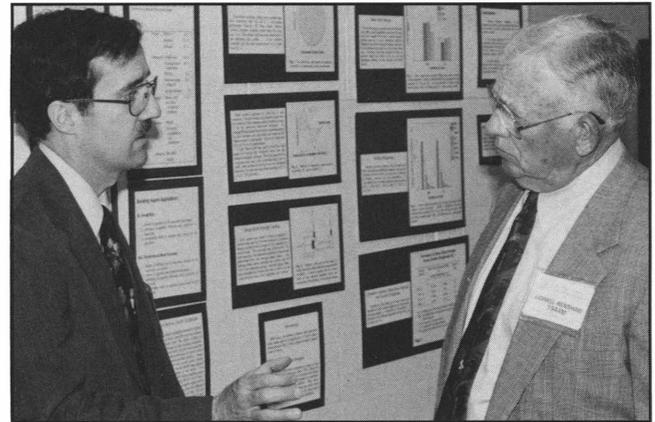
Prosthodontic graduate student Dr. Domingo Valadez points out a detail of a clinic prepared by his classmate, Dr. Arnold Cullum.



Eli Lilly scientist and adjunct professor Dr. Janet Hock opens the lecture session with a discussion of the relationship between molecular biology and bone formation.



From left: Cardinal Casey (DDS'58), Robert Stokes (DDS'72), and Donald Robinson (DDS'60) with clinic presenter Dr. B. Keith Moore, a dental materials faculty member in restorative dentistry



Dental materials faculty member Dr. Mark Winkler (left) discusses his clinic with Lowell Renshaw (DDS'44).

Photos by Mike Halloran



Dr. Carol McKown, a pediatric dentistry faculty member at Riley Hospital for Children, talks with Miles Standish (DDS'45) about dental care for children with cancer.

DAE around Indiana

HONORS AND COMMENCEMENT PROGRAMS

Indiana University-Purdue University Fort Wayne

Dental Laboratory Technology Ceremony May 4

ELIZABETH R. ACKER

Highest Academic Achievement Award, presented by Charles A. Champion, chair, Dental Laboratory Technology; and sponsored by Sullivan Dental Products of Fort Wayne

CAROL A. SIBOLE

Best Individual Improvement in Dental Laboratory Performance, presented by Albino M. Perez, assistant professor, Dental Laboratory Technology; and sponsored by J.F. Jelenko & Co.

Dental Assisting Ceremony May 8

DEBORAH E. STUART

Ruth White Award, sponsored by the Alliance to the Isaac Knapp District Dental Society

KIMBERLY A. McINTOSH

Outstanding Academic Achievement Award

ANGELA S. MARTIN

Outstanding Student Award for Attitude and High Standards

MARIE A. MARLOW

Outstanding Student Award for Clinical Excellence and High Standards

BETHANY L. MALONE

Duke's Day Award

Dental Hygiene Ceremony April 26

GAIL A. BUSSARD

Outstanding Academic Achievement Award, presented by Jacqueline N. Heine, associate professor, Dental Education

SHELLINE Y. CUNNINGHAM

Hu-Friedy Golden Scaler Award, presented by Mary D. Cooper, associate professor, Dental Education

Isaac Knapp Dental Hygiene Education Award, presented by Kathy L. Nahrwold, president, Indiana Dental Hygienists' Association, and past president, Isaac Knapp Dental Hygienists' Association; and Sherry Prindle-Reed, district representative, Procter and Gamble Co.

TONYA S. JOHNSON

Oral Pathology Award, presented by Dr. Timothy J. Shambaugh, Fort Wayne oral and maxillofacial surgeon and associate faculty member

CASEY L. GORDON

A. Rebekah Fisk Award, presented by Lorie J. Krouse, trustee, IDHA

KIMBERLY R. DAVIDSON and
HILARY E. HAMBY (1st year students)

Each received a \$500 scholarship from the *Isaac Knapp Dental Hygienists' Association*. They were presented by Lorie J. Krouse, chair, IDHA and IKDHA Scholarship Committees.

Indiana University Northwest

Allied Dental Education Ceremony May 14

Dental Assisting

AMBER COOK

Graduating with High Distinction

Membership, Phi Epsilon Nu Honor Society, presented by faculty member Audra Peterson

LINDA RIGGS

Peggy Burger Memorial Award, presented by Sarah Klein, Lake and Porter County Dental Assistants' Society

SKYELER HARDY

Juliette Southard Award for Outstanding Leadership, presented by Audra Peterson

Abraham J. Ochstein Award for Professionalism, presented by Audra Peterson

JENNIFER JEWETT

Edward W. Farrell Award for Professional Growth, presented by faculty member Dr. Steven Holm

IUN Student Alumni Council's Recognition Award (for support of the dental assisting club), presented by Audra Peterson

Dental Hygiene

NANCY PEREZ

Graduating with Highest Distinction

Membership, Beta Tau Chapter, Sigma Phi Alpha Honor Society, presented by chapter representative, Alita Bonick

Clinical Faculty Professionalism Award, presented by faculty member Dr. Guy Janssen

Northwest Indiana Dental Hygienists' Association Oral Health Education Award, presented by association representative, Ronda Henning

ELAINA VRANISKOSKI

Edward W. Farrell Award for Professional Growth, presented by Dr. Steven Holm

JEAN GLAD

Graduating with Distinction

Photos by Amanda Horsewood McArdle



(Left to right) Fort Wayne dental hygiene grads Gail Bussard, Shelline Cunningham, Tonya Johnson, and Casey Gordon were the award recipients at this year's Honors & Recognition Program, a candle-lighting ceremony attended by approximately 100 persons.

IUSB student singled out for state scholarship



Denise Hitchins

Denise Hitchins, a first-year dental hygiene student at IU South Bend, is the 1994 recipient of the Indiana Dental Hygienists' Association scholarship.

"This scholarship is very special," says Dr. Shant Markarian, the South Bend campus' director of dental education. "It is awarded to just one student from all the dental hygiene programs throughout Indiana. Denise is the second IUSB student to receive this distinction."

IUPUI: 1st Place State

We're proud of our 44 dental hygiene graduates, all of whom participated in the Indiana Dental Association's annual meeting a few weeks before commencement.

A special note of congratulations goes to Michele Cross, Nancy Gobel, and Pamela Jones. They earned 1st Place State in the Indiana Dental Hygienists' Association (IDHA) table clinic competition for "It's Up to Me...It's Up to You," a clinic that focused on homeless persons. This group undertook research and provided care to homeless persons in the city with a goal of increasing awareness within the healthcare community for the need to provide volunteer services for this underserved population.

Faculty members Hunter Rackley, Mary Rehmel, Sally Phillips, and Lorinda Coan presented a continuing education course, "CPR Certification," at the IDHA meeting.

Faculty member Louise Judd was presented with this year's IDHA Outstanding Hygienist Community Service Award. At the close of the academic year Professor Judd resigned her position as clinical assistant professor of dental hygiene, a post in which she had served with excellence since 1988. In recent years many hundreds of Hoosiers benefited from their interactions with dental hygiene students who learned about the importance of community service by working on assignments at various locations within central Indiana as part of their involvement in Professor Judd's community dental health course.

Louise and her husband, James, have returned to a home they have in Hickory, North Carolina. She will be greatly missed by all.

Sally I. Phillips
Lecturer in Dental Hygiene
IUPUI

Indiana University Northwest

JODI FARRIS

IUN Student Alumni Council's Recognition Award (for support of the Student American Dental Hygienists' Association), presented by faculty member Donna Krause

MARY STOUdT

Hu-Friedy Golden Scaler Award, presented by faculty member Juanita Robinson

LAURIE GIBSON

A. Rebekah Fisk Award, presented by Ronda Henning

PEGGY WOLF

Graduating with High Distinction

Procter and Gamble Award for Outstanding Periodontal Treatment, presented by Cherie Rippey, of Procter and Gamble

MELISSA RICH

Lana Jo Podsadecki-Wild Award, named in memory of a 1983 graduate of the program who died in 1989; presented by her classmate, Nancy Anglis

TRICIA TURNER (1st year student)

Christine Newhard Scholarship, named in memory of a graduate who died shortly after she completed IUN's dental assisting program in 1984. Ms. Newhard had intended to enter the dental hygiene program; the scholarship created by her parents goes to a graduate of IUN's dental assisting program who has completed one year of the dental hygiene program. Presented by Dr. Robert Moon.

DR. STEVEN HOLM, AUDRA PETERSON, and LYNN WILSON

Adjunct Faculty Awards, presented by the dental assisting and dental hygiene classes

WESTVILLE CORRECTIONAL CENTER

Outstanding Extramural Faculty Award, presented by the dental assisting class

JUANITA ROBINSON

Christine Newhard Memorial Outstanding Faculty Award

Indiana University South Bend

Dental Hygiene Ceremony May 7

Awards presented by Dr. Shant Markarian, director of Dental Education

LORAIN D. POZNIAK-RICE

Graduating with High Distinction
Dental Hygiene Award

PATRICIA A. AKERS

Graduating with Distinction
A. Rebekah Fisk Award

BRENDA S. ROTH

Procter and Gamble Preventive Oral Health Award

KATHLEEN A. CLARK

Dorothy Fromm Preventive Dentistry Award

CRYSTAL R. BACK

Dr. Charles E. Hassell Community Service Award

KATHLEEN RICHARDS

Carol Dee Minichillo Memorial Scholarship

Dental Assisting Ceremony June 30

RACHEL L. THOMAS

Student Award

CATHERINE E. ELLIS and MELISSA L. KLAPP

Clinical Awards

CATHERINE E. ELLIS

Instructor Award

ALICE KAY GLANTZ

Ralph G. Schimmele Award

Awards given by the Indiana Dental Assistants' Association during the annual session in May:

Runners-up in the table clinic competition for project, "Growing Up Cavity Free": MELISSA E. BEMILLER, JENNIFER L. DIETER, MELISSA L. KLAPP, and DEBORAH L. NOWACKI

Runner-up in the poster presentation: TAMERA R. TICE

IPFW students earn top IDAA honors

The IPFW profile was high during the annual session of the Indiana Dental Assistants' Association (IDAA), held in Indianapolis in May.

Three members of the dental assisting Class of '94 were nominated by their peers to enter the Association's professional paper and poster competitions. We're proud to report that IPFW students won both contests! Deborah Stuart won the paper competition and Marie Marlow prepared the prize-winning poster.

Of the three IPFW table clinics presented at the meeting, the one entitled "Chew Your Caries Away" came home with the top prize. The clinic was created by Kim McIntosh, Marie Marlow, Angela Martin, and Deborah Stuart.

Attending the meeting as delegates from the Isaac Knapp Dental Assistants' Society (IKDAS) were faculty members Jami Beard, chair of dental assisting and clinical assistant professor; and Connie Kracher, visiting assistant professor. Professor Beard, who is currently president of IKDAS, is also a member of the American Dental Assistants' Association (ADAA) Bylaws Committee. She chairs the IDAA's Strategic and Long-Range Planning Committee and belongs to the Ways and Means Committee and the Ad-Hoc Program Committee. Professor Kracher is president-elect of IKDAS. She chairs the IDAA Ways and Means Committee and serves on the ADAA International Dental Assistants Committee.

Jami L. Beard
Chair of Dental Assisting
IPFW



Presenting a clinic at the IDAA meeting are, left to right: IPFW students Beth Malone, Holly Gamester, Jenny Smith, and Peggy Lothamer.



IPFW table clinic presenters, from left: Angela Nichols, Becky Fulkerson, April Byer, and Stephanie Teeter



While John Schymik (DDS'65) prepares to hand over a beautiful trophy, Indiana Dental Assistants' Association President Amy Townsend (third from left) congratulates clinic winners, from left: IPFW students Kim McIntosh, Deborah Stuart, Marie Marlow, and Angela Martin. Dr. Schymik is the Indiana Dental Association's director of clinics.

With the Classes...

Plenty of IUSD at the Top of the AAOMP

Congratulations are extended to Charles E. Tomich (MSD'68), IU professor of oral pathology, who was elected president-elect of the American Academy of Oral and Maxillofacial Pathology during the annual meeting, held in Santa Fe, N.M., in May. He will assume the presidency next May.

Dr. Tomich isn't likely to grow lonesome for folks with Hoosier ties during his tenure as president-elect of the AAOMP. The current list of officers resembles a class roster belonging to Bill Shafer, IU's long-time chair of oral path. Of the eight officer positions, six currently are held by grads of IU. They are, in addition to Dr. Tomich:

- Immediate Past President: *Dean K. White* (MSD'72), Lexington, Kentucky
- Vice President: *Russell L. Corio* (MSD'70), Washington, D.C.
- Secretary-Treasurer: *John M. Wright, Jr.* (MS'77), Dallas, Texas
- Editor: *Carl M. Allen* (MSD'80), Columbus, Ohio
- Director, American Board of Oral Pathology: *Lewis R. Eversole* (DDS'68, MSD'70), Woodland Hills, California

Obviously the leadership of this prestigious organization, which is composed of 743 members, is in good (and well-trained) hands.

100 Years of History: Miles Standish Tells the IDDS Story

Those of us at the IU dental school have been stumbling upon him, during the past couple of years, deep in the stacks of the oldest books in the lower level of the school's library.

Professor Emeritus S. Miles Standish, long-time chair of the former oral diagnosis/oral medicine department, was in pursuit of details that would help him tell the story of the Indianapolis District Dental Society.

The result of his mammoth effort is a 239-page book that chronicles activities associated with the Society from 1878 to 1978. *Indianapolis District Dental Society: An*

Historical Perspective premiered at the 136th annual session of the Indiana Dental Association in Indianapolis in May.

Dr. Standish worked on the painstaking, labor-intensive project with a meticulous zeal worthy of a world-class forensic expert (which, as many of you know, Dr. Standish happens to be). Not content with limiting his book to the historical boundaries of the IDDS itself, Dr. Standish tells a bigger story, providing insight into the Hoosier state in the 19th century. History buffs should enjoy his discussions of folk medicine, dental education and practice, and organized dentistry.

Copies of the book are available from the IDDS for \$25 each. Interested persons can pick up a copy at the Central Office, or, for an extra \$5, have one sent to them.

If you'd like to have a copy mailed to you, send a check for \$30 (payable to the IDDS) to: IDDS, 3901 N. Meridian, Ste. 10, Indianapolis, IN 46208-4042.

For more information, call IDDS executive director Sara M. (Sally) Snyder, 317/923-8421.

Facts from the Field

1961

Dr. Maynard K. Hine, IUPUI chancellor emeritus and IUSD dean emeritus, has informed us that C. David Hay (DDS), Rosedale, recently received a number of honors for several poetic works of art, including a poem entitled *Wings*, which won the 1994 President's Award for literary excellence, given by the national Authors Registry. His poem *Little Man* earned him the Golden Quill Award from the International Society for the Advancement of Poetry, and several poems have received Editor's Preference Awards from Creative Arts and Science Enterprises. (Congratulations Dr. Hay—and if you'd like to share one of your award-winning poems with the dental alumni, please send one to us—eds.)

1964



Dr. Chalian

Varoujan A. Chalian (DDS, MSD'76), IU professor emeritus of prosthodontics, was recognized for his contributions to the profession at the First International Congress on Maxillofacial Prosthetics, held in Palm Springs, Calif., April 29. Dr. Chalian served as IU's head of maxillofacial prosthetics for more than 30 years. He is a past president of the American Academy of Maxillofacial Prosthetics and the author of

a textbook, *Maxillofacial Prosthetics: Multidisciplinary Approach*, published in 1971. Dr. Chalian resides in Indianapolis.

1971

George K. Stookey (MSD'62, PhD), IU's associate dean for dental research and director of the Oral Health Research Institute, received the Indiana Dental Association's highest honor, the Maynard K. Hine Award, during the IDA's annual session. IUPUI Chancellor Emeritus Hine has served as president of both the IDA and the American Dental Association.

An affiliate member of the IDA, Dr. Stookey has devoted his professional career to the pursuit of scientific advances in oral health research. Long recognized as an international leader in fluoride metabolism, Dr. Stookey currently is the primary investigator for a \$3.1 million international study of the safe use of fluoride in high-risk populations. The five-year study is funded by the National Institute of Dental Research. Dr. Stookey is consultant to several organizations, including the NIDR, Food and Drug Administration, and the U.S. Armed Forces.

1973



Dr. Bryan

Last January Norman E. Bryan (DDS) was elected to full membership in the American Academy of Head, Neck and Facial Pain. He has been addressing these special needs of patients in his general practice for the last two decades. The Academy was founded in 1985 to recognize medical and dental professionals with specialized knowledge and skills in the diagnosis and treatment of head, neck, facial pain and temporomandibular joint dysfunctions. Dr. Bryan and his wife, Linda, live in Elkhart.

1974

Gail F. Williamson (ASDH, BS'79, MS'82), IU associate professor, Department of Stomatology, has been elected secretary of the Section on Oral and Maxillofacial Radiology of the American Association of Dental Schools.

1975

Carl W. Newton (DDS, MSD'77), Indianapolis, has been elected to serve as the 1994-95 secretary of the American Association of Endodontists. He assumes the post after having served on the board of directors for the last three years and as a trustee for the Research and Education Foundation from 1988 to 1991. Dr. Newton is former chair of IU's Department of Endodontics.

Congratulations to Bonni M. Boone (DDS'88) and Steven C. Wong (DDS'89), who were married on April 23. Dr. Boone-Wong is a general practitioner and Dr. Wong an orthodontist in South Bend.

New Addresses

1943 Wayne F. Kirchoff (DDS), 7400 Crestway Apt. 910, San Antonio, TX 78239

1956 Charles A. Bridenhager (DDS), 405 E. Union St., Liberty, IN 47353

1965 John C. Hoerath (DDS), 3702 Hartford Ave., Lawrence, KS 66047

1979 William W. Prentice (DDS), 8516 Bent Tree Ct., Indianapolis, IN 46260

1987 A new practice address for Bruce P. Benifiel (DDS), 6910 N. Main St., Box 35, Suite 6B, Granger, IN 46530; telephone 219/277-7733

1989 Tracy L. Harris (Dental Assisting certificate), 109 David Brown Dr., Westfield, IN 46074

1989 Marcy Jo (McNeal) Sutter (Dental Assisting certificate), P.O. Box 2, Rockford, OH 45882

1991 Amanda L. (Mattingly) Vogel (ASDH), 6420 W. Hickory Hill Dr., North Vernon, IN 47265

1992 Christina M. Diggs (Dental Assisting certificate), 5972 Ulliyot Dr., Fort Wayne, IN 46804

Obituary

1954 Bailey D. Hinton, Jr. (DDS), Vero Beach, FL, died June 21, 1994. He had moved his practice to Vero Beach in 1975, having previously resided and practiced in Coral Gables. He served in the U.S. Navy during World War II. Dr. Hinton was a past president of the Miami Dental Society.

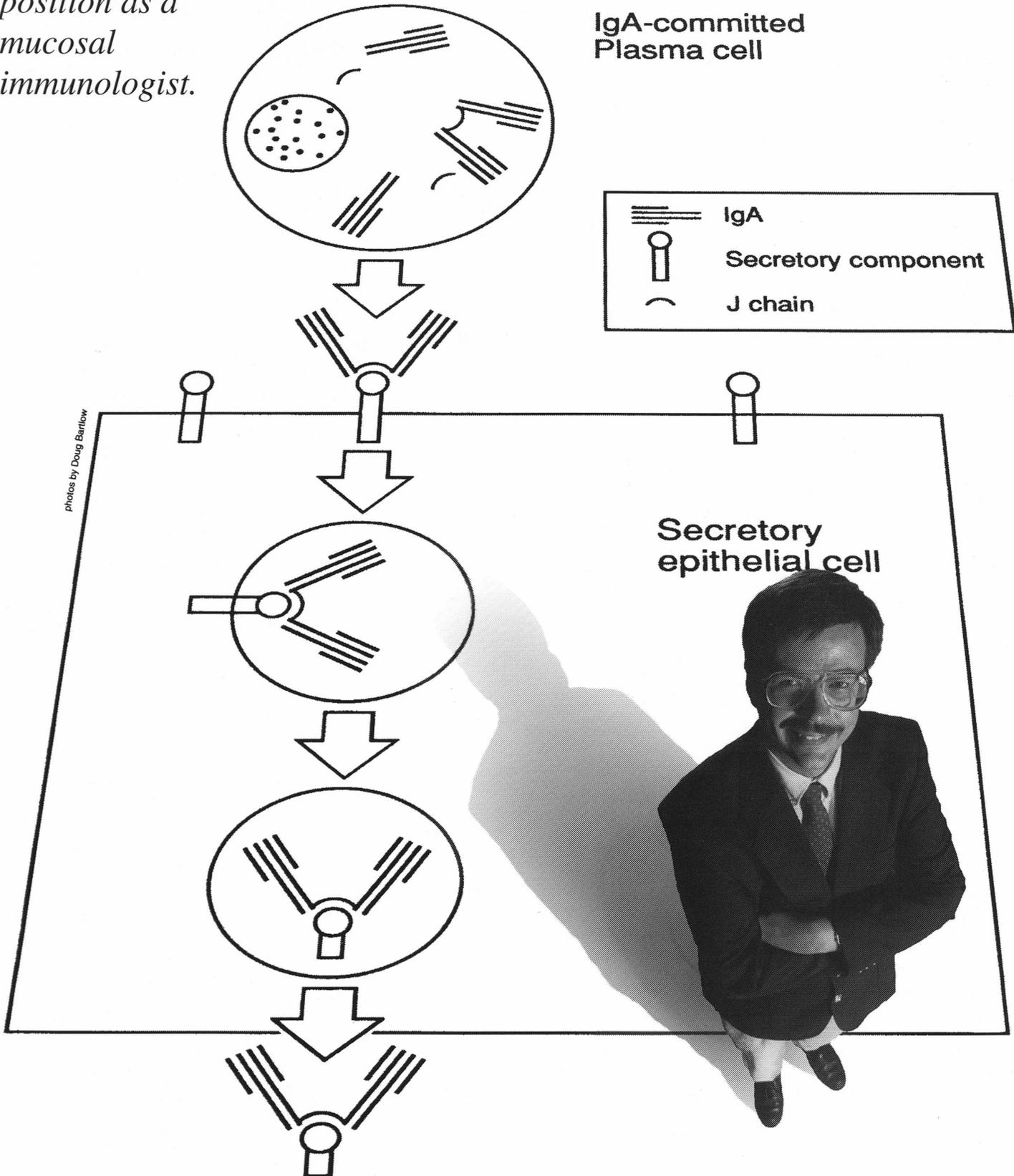
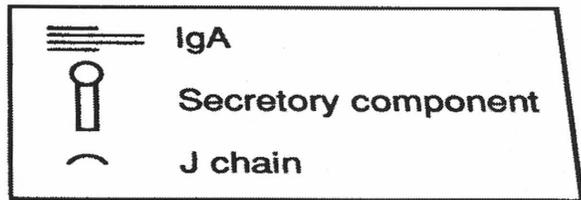
"I had known Bailey since 1952, when I was a sophomore and he was a junior in dental school," Dr. Charles D. Hall, Vero Beach, said recently in a letter to Dean H. William Gilmore. "For 42 years—at school, in Coral Gables, and here in Vero for the last 15 years—we shared countless hours of parties, U. of M. and Dolphin football games, fishing, and high school games in Vero. I will miss him so much. He was very proud of being a graduate."

Dr. Hinton is survived by his wife of 49 years, Maxine, and his daughter, Rosemary Hinton, both of Vero Beach. He was preceded in death by his son, Bailey D. Hinton III (DDS'70), who died in 1972.

IU faculty member Richard L. Gregory covers a lot of territory—about 400 square meters—in his unique position as a mucosal immunologist.

Solving Mysteries of the Mucosal Immune System

IgA-committed Plasma cell



photos by Doug Bartlow

“The skin of an average-size adult covers about 1.8 square meters,” Richard Gregory points out during our recent visit to his office. It’s a friendly, cluttered place containing a hodgepodge of books, heaps of papers and reprints, family photos, and one or two instruments used in cell biology that apparently have been spirited away from the big lab across the hall.

“By comparison, that same individual’s body has roughly 400 square meters of mucosal surface,” he stresses in a tone of voice that talented teachers use to snare the attention of students.

The mucosal surface is a vast terrain, says Dr. Gregory—and one that traditionally has been given short shrift in discussions of the immune system in classrooms at medical and dental schools.

He underscores the importance of beefing up doctoral teaching programs with faculty members who are knowledgeable about mucosal immunology. There are plenty of reasons why future healthcare professionals should be well-acquainted with this field. “With just a few exceptions, all infectious diseases—from the common cold to AIDS to dental caries—are either initiated on, or present at, mucosal surfaces,” Dr. Gregory says.

The mucosal surfaces encompass the oral cavity, the lacrimal and mammary glands, and the gastrointestinal, respiratory, and genitourinary tracts. Although many of his dental school associates regard him as the local “saliva expert,” Dr. Gregory is trained to conduct research in all areas of the mucosal system; he has spent the past couple of years building a network with IU researchers in several departments across the street at the School of Medicine as well as in the kinesiology department on the Bloomington campus.

Dr. Gregory arrived on the IU faculty in 1991, after serving seven years on the oral biology faculty of the now-defunct Emory University School of Postgraduate Dentistry, Atlanta, Ga. He earned a PhD degree in microbiology and immunology from Southern Illinois University in 1982, and completed a postgraduate training program in mucosal immunology at the University of Alabama at Birmingham in 1984.

Love at First (Lack of) Sight

Dr. Gregory was a sophomore in high school at Mount Prospect, Ill., a suburb of Chicago, when he made a big, albeit unscientific discovery: his love of microbiology. “I took an elective micro class, which, although I didn’t know it then, very few high schools offered at that time,” he recalls. “Small living things intrigued me—things so small that I could neither see nor touch them.” He cheerfully racked up extra hours in his favorite lab by washing the glassware and setting up experiments as the teacher’s volunteer assistant.

After high school he moved on to Eastern Illinois University, in Charleston, where he graduated cum laude with a double major in medical technology and chemistry.

“I became more interested in living things than dead chemicals,” says Dr. Gregory, “so I pursued the medical technology degree and then worked for a while as a hospital med tech.”

Intending to study for a master’s at Southern Illinois so that he could return to the hospital with leverage for a promotion to supervisor, Rich stepped instead onto the PhD track after he obtained the degree, thanks to the encouragement of a research mentor who offered him a position as a teacher and research assistant.

It was during his years at Southern Illinois that Dr. Gregory’s career began to lean subtly in the direction of dentistry. “My dissertation was primarily biochemical,” he says, “but it also included an immunologic investigation of a subcellular particle of *Streptococcus mutans*, which is a bacterium causing dental caries.”

The popularity of *Strep mutans* as a research model is not limited to dental researchers. Many types of investigators find that the organism conveniently applies to their work because it’s a well-defined pathogen found abundantly and exclusively in saliva, and specimens can be easily collected from human and animal subjects.

By the time he linked up with a research team of immunologists at the U of Alabama, Dr. Gregory had amassed a wealth of knowledge of these microscopic (0.5 to 0.75 μm in diameter), often round cells that occur in pairs or short chains and that demonstrate a fondness for stirring up trouble in the oral cavity by colonizing on the smooth surfaces of teeth. This research group, led by Suzanne Michalek, Jerry McGhee, and Jiri Mestecky, made international headlines in 1985, when it developed an effective oral vaccine against *Strep mutans* in a small number of human subjects (see side story).

Dental Professor: Who, Me?

Even in the most madcap moment of his youth, Rich Gregory never envisioned winding up as a dental school professor. But looking back, he sees that his in-depth training with this dentally relevant pathogen was a career in dentistry just waiting to happen.

Refer to him as a researcher once too often, though, and this soft-spoken faculty member is quick to let you know that he prefers a less restrictive title. He considers himself first and foremost a teacher, as can be evidenced in the mucosal immunology laboratory, where the communication comfort level between faculty, staff, and students is high. On any given day assortments of graduate and undergraduate students pursue a multitude of research projects under his mentorship. Appointed as an associate professor of oral microbiology in the dental school’s oral biology department and as a part-time associate professor of pathology and laboratory medicine at the med school, Dr. Gregory teaches the immunology portions of the second-year dental students’ oral microbiology lecture course, and he directs the graduate oral microbiology course, which is taken by the med school’s pathology and microbiology students as well as by grad students in dental fields. He plans to develop a course exclusively for mucosal immunology over the next couple of years.



FOOD FOR THOUGHT. In his slide presentations Dr. Gregory often introduces students to the subject of IgA by first showing them a culturally more familiar version.

The ABC's of IgA

As one might imagine, Dr. Gregory devotes much of his energy to the study of immunoglobulins, the protein molecules in the fluids of the body that function as antibodies. Of the five classes of immunoglobulins—IgA, IgD, IgE, IgG, and IgM—Dr. Gregory is focusing a good deal of his attention on (and developing a national reputation for) studies of IgA, the immunoglobulin which defends the body against microorganisms that like to roost on the mucosa. His special research niche is in another type of IgA known as secretory IgA, the primary immune component contained in secretions of the salivary, lacrimal, and mammary glands as well as in the lungs, gut, and genital tract.

Dr. Gregory says that IgA often gets inadequate coverage in medical and dental classrooms (that is, if it gets covered at all).

"IgA traditionally has been ignored," he states. "It's only been in the last five or 10 years that IgA has been identified as the body's predominant immunoglobulin. However, almost any textbook you look at describes IgG as the predominant one. Everyone used to think this was so, but now we know it isn't true. There can be as much as three times more IgA than IgG in the body. Still, in many cases, IgA barely gets mentioned by instructors. We don't understand all of the functions of IgA yet, but it's extremely important to study it. I doubt that the human body would have so much of this immunoglobulin without a reason for it."

Although many of his dental school associates regard him as the local "saliva expert," Dr. Gregory is trained to conduct research in all areas of the mucosal system. . .

Diverse Roads in Research

Since coming to IU he's been a primary investigator for upwards of \$1 million in studies funded primarily by the National Institute of Dental Research and the Smokeless Tobacco Research Council.

Results obtained from the four-year NIDR study, which was completed in 1992, disclosed that caries-free individuals have significantly higher levels of IgA antibody in saliva to many different *Strep mutans* antigens than do caries-active subjects. "The antibodies not only bind to those antigens, they also inhibit or neutralize many of them," he explains. "When we did neutralizing assays, we found similar results—caries-free individuals had higher levels of the neutralizing antibodies than the caries-active subjects. Many other published studies have demonstrated the existence of antibodies that bind to antigens or pathogens, but they haven't delved deeper. Our greatest interest lies in finding an answer to the question, What do these antibodies actually *do* to the pathogen?"

Dr. Gregory pursued the Smokeless Tobacco Research Council grants to try to help resolve the controversy in the research community surrounding the relationship of smokeless tobacco use and dental caries. "Some of the literature has suggested that the use of smokeless tobacco increases the incidence of dental caries, and other studies have suggested just the opposite—that smokeless tobacco use *decreases* the incidence."

The IU studies have generated three intriguing facts thus far. Researchers found 1) three times as much IgA in the saliva of smokeless tobacco users than in non-users, which lends support to the idea of a stronger immune response being present in users; 2) a structurally altered secretory IgA in users, although tests revealed the secretory IgA was still fulfilling its duties as a line of defense for the body; and 3) tremendously high levels of a unique bacterium in the saliva of the users.

"We're calling the bacterium *Streptococcus morbillorum*," says Dr. Gregory of the third finding. "We don't know yet if it's harmful. It doesn't come from the tobacco, but something within the tobacco stimulates growth of this organism in the lab."

In light of all that is known about the harmful effects of smokeless tobacco use, studying its relationship to dental caries may seem to be a bit beside the point. Dr. Gregory strongly disagrees. The projects related to these grants are important to his research effort, he says, because they open up avenues that allow him to study many questions related to mucosal immunity.

And that's a subject he pursues with endless enthusiasm.

"We know that mucosal immunity plays a big role in caries formation," he says. "A strong mucosal immune response against *Strep mutans* usually leads to a lower level of caries—interestingly, *regardless* of fluoride application. We've studied two populations of human subjects—one caries free, one caries active—with both receiving optimal fluoride. We found that the caries-free individuals had higher levels of IgA antibody against *Strep mutans* than the caries-active subjects. And we've demonstrated the same antibody effects with people who do not receive optimal fluoride."

Dr. Gregory's studies have also demonstrated a bacterial difference between caries-free and caries-active subjects. "We've learned that there are different strains of *Strep mutans*," he explains. "Caries-active individuals have strains that are more virulent, more pathogenic, than strains seen in caries-free persons."

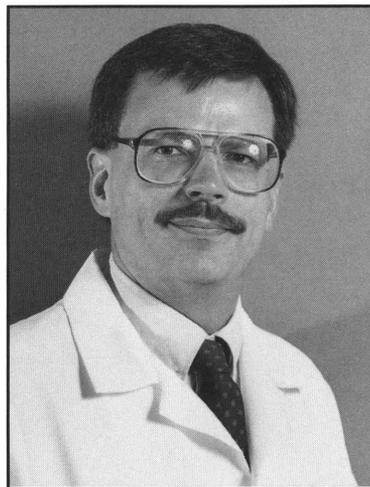
Dr. Gregory is also engaged in a number of studies with colleagues elsewhere in the Indiana University system. In addition to working with pediatric dentists Drs. Brian Sanders and David Avery on several dentally related topics at Riley Hospital for Children, Dr. Gregory is collaborating on a number of non-dental investigations. He is working with Dr. Mark Pescovitz, a surgeon, on a project that will help the medical school learn more about the effects of small-bowel transplants on mucosal immunity, providing information needed for the school's proposed pediatric small-bowel transplant program. With Dr. Sonny Chong, a gastroenterologist, Dr. Gregory is looking at the IgA levels in persons with necrotizing endocolitis, a debilitating gut infection that strikes children. With Ned Warner, a PhD candidate in the medical school's pathology department, Dr. Gregory is studying HIV-infected patients to understand the impact of their infections on the mucosal immune system.

He is also helping a kinesiologist in Bloomington expand her study of the effects of physiologic stress on system immunity to include an investigation of the mucosal immune system as well. "Faculty member Dr. Janet Wallace wants to know why infants don't like to nurse after their mothers have exercised," says Dr. Gregory. "She believes that the high level of lactic acid present in milk soon after a lactating woman exercises creates a bitter taste. To complement her analysis of lactic acid, I've been awarded a grant to investigate the effects of exercise-induced stress on the subjects' IgA levels. There have been a lot of studies conducted on the effects of stress on the systemic immune system, of course, but relatively few studies have addressed mucosal immunity."

We come away from our visit with this energetic professor feeling that, sooner or later, any topic that *can* be studied from a mucosal immunologic perspective by Dr. Gregory, will be. In the meantime, he prepares to move his operation from the Oral Health Research Institute to the dental school's second floor, which currently is being renovated for a team of cell biologists scheduled to join the dental faculty in the fall.

Rooming with a team of cell biologists is to a lone mucosal immunologist what rooming with the Dallas Cowboys would be to a lone Rugby player—the game-plan may be different, but there's still plenty of common ground to keep the discussion lively.

Dr. Gregory anticipates the team's arrival with excitement and looks forward to sharing his new quarters with these teachers—who, as he sees it, will also be four more people helping to enrich IU's pool of research collaborators. ■



"IgA traditionally has been ignored. . .It's only been in the last five or 10 years that IgA has been identified as the body's predominant immunoglobulin. . ."

Musings of a Mucosal Immunologist

Q *What points about the field of mucosal immunology do you most want to drive home to members of the dental profession?*

A *Number one:* That the field exists! The mucosal immune system has been long ignored in dental education programs. Many dentists have no idea that saliva contains IgA, for example. If they're going to have their hands in patients' mouths all day long, they should be well-educated about the environment they are working in.

Number two: That nature has given us a very strong protective mechanism against mucosal diseases such as periodontal disease and dental caries. Without the bacterium that causes those diseases, they wouldn't exist. The immune response against those diseases limits them to the individuals who have them. Since there are mucosal immune responses against periodontal disease and caries, I think it's critical for dentists to understand the mechanism that induces the protection *as well as* what the protection actually does to the bacterium. If I were a patient with periodontal disease, I'd be more impressed by a dentist who could tell me exactly what is going on inside my mouth than I would by one who performs treatment without fully understanding the mechanisms of the disease.

A Vaccine to Zap Mr. Tooth Decay: Surviving a National Media Blitz

When in the early 1980s a research team from the University of Alabama at Birmingham developed an effective oral vaccine against dental caries in a small number of human subjects, the lay media thundered down upon the group with a fury that still irritates Dr. Gregory when he thinks about it a decade later.

Enrolled at that time in Birmingham's mucosal immunology postdoctoral training program, Dr. Gregory belonged to the group that developed an oral vaccine against dental caries containing killed *Streptococcus mutans* cells. The experimental vaccine ultimately was used successfully on 16 patients.

"The subjects were given the vaccine orally, in capsule form," says Dr. Gregory. "After immunization, they showed higher levels of IgA antibody in their saliva and tears—and in the case of one subject, in her breast milk—against *Strep mutans* antigens. The number of *Strep mutans* in their saliva was significantly depressed after immunization."

Encouraged by their results, the researchers were soon dismayed when many members of the media bandwagon interpreted

the facts of the study in a way that trumpeted the vaccine as if it were already available, or soon would be, from the local dentist or pharmacist.

"We tried to speak of the study as plainly as possible," says Dr. Gregory, "explaining that there would be no vaccine for the public in the near future, and that this was the very beginning of a long-term process. But many reporters misinterpreted or misrepresented much of what we told them."

Even when reporters wrote a straightforward account of the findings, their editors often crowned it with a sensational headline. Disconcerting to Dr. Gregory were headlines such as one he recalls about Mr. Tooth Decay getting zapped with a vaccine. "I resented the nonscientific, bogus, and childish labels that were attached to something we had worked on for years," he says. "It was a fascinating experience, but I didn't enjoy the media spotlight."

Ironically, eradicating a dental disease wasn't even the primary mission of this group of non-dentists.

"As immunologists, we approached it primarily as a non-dental study," says Dr. Gregory. "We were looking for an answer to an immunological question: Is it possible to induce orally a protective secretory IgA response to *Strep mutans*? We chose *Strep mutans* because of the qualities that make it a good research model."

Although the research has been the subject of much interest and speculation within the dental profession, the media hoopla subsided long ago. Little progress has been made in this area since the Birmingham group's work, perhaps, Dr. Gregory speculates, because any such vaccine would be subjected to years of extraordinary (and necessary) scrutiny by the FDA, and potential research-funding agencies such as pharmaceutical companies are apt to view the caries-active population as a declining marketplace.

Dr. Gregory himself remains interested in the caries vaccine, but he is not aware of any researcher in the country who is working on one directly (i.e., with human subjects).

Meanwhile, part of the work going on in Dr. Gregory's lab today indirectly bears upon the search for a caries vaccine. One example is a study by PhD candidate Dr. Margherita Fontana, who is using rodent models to study immune responses to decay-causing *Strep mutans*. "The long-range goal," Dr. Gregory says, "is to make the caries-active subject immunologically similar to the caries-free subject. It's a matter of identifying the right antigens to place in the vaccine."

INDIANA UNIVERSITY
PURDUE UNIVERSITY
INDIANAPOLIS



INDIANA UNIVERSITY SCHOOL OF DENTISTRY
(ALUMNI BULLETIN)
1121 West Michigan Street
Indianapolis, Indiana 46202-5186

Address Correction Requested

Nonprofit Organization
U.S. POSTAGE
PAID
Indianapolis, Indiana
Permit No. 4245

Library
Indiana University
School of Dentistry
DS 128
IUPUI