

DEPARTMENTS



30

A FREY-DAY MORNING IN FORT WAYNE

*The Alumni Bulletin chats
with two of IU's finest: Jim
(DDS'62) and Tim
(DDS'95) Frey*

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The *Alumni Bulletin* is a complimentary publication directed to all members of the Indiana University School of Dentistry alumni. There are four issues each year, including a special issue annual report. Material included herein does not necessarily represent the official position of the school.

For business related to the *Alumni Bulletin*, which is produced by the dental school, write to:

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**LIGHTING
PATHWAYS**
IN DENTISTRY

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Curriculum Reform Is Here

Strengthening the curriculum is the top challenge in schools at all levels of education in the United States, and schools of dentistry are no exception. IU's dental faculty is in the midst of reforming the predoctoral program with the goal of producing—in a predictable, measurable way—dental graduates who are better prepared to meet their futures.

It is a difficult task to modify courses and departments that are already deemed excellent. But fundamental to our mission is the ability to create a contemporary program for our students that is by its character adaptable, flexible, and full of vitality. It must also be capable of being measured in ways that show us our students are learning everything they need to know to become capable, caring dentists, and to flourish in their profession.

Each semester assessment data are providing insight and direction to help us pinpoint courses and subjects that can be improved. In essence, the faculty is looking at ways to shift instruction in the predoctoral curriculum away from passive learning methods, such as typical lecture-hall presentations, and toward an increase in the use of methods that encourage active student participation, thereby enhancing skills associated with creative thinking and scientific reasoning. Several new teaching methods, including instructional multimedia opportunities, are being recommended to spur active student learning. A more

active role for learners should also lend more enjoyment to the educational process for students and faculty alike. Expert faculty have the knowledge and experience to strengthen the curriculum. Our school is blessed to be moving forward in reform and collecting assessment data to measure student learning.

Today's curriculum must provide students with a professional knowledge base and the tools needed to acquire skills essential for treating patients. Exceptional psychomotor abilities are required of healthcare providers who spend the bulk of their work days conducting examinations and treating a variety of conditions within the confines of the oral cavity. With IUSD's new departments it will now be possible to construct the consummate preclinical course, supported by educational principles and designed to enhance the students' initial set of skills.

Having the entire scope of preclinical instruction in their hindsight, faculty members in the clinical departments can then focus on teaching subjects in the restorative-periodontic areas that share essential techniques and skills required for the general practice dentist. Conducting qualifying exams in laboratory courses offers another way to measure the progress of preclinical students. Strengthening preclinical instruction should result in greater attainment of high

quality clinical performances by our students in the second half of their educational program.

There exists a strong need to bolster the diagnostic skills of dental students by exposing them to more information in the basic sciences. In this regard, IUSD and other schools of dentistry located on academic health center campuses have advantages over others in that they are able to pool educational resources with schools of medicine.

Evidence points to the fact that dentistry in the future will increasingly rely upon the application of scientific methods in both diagnostics and therapeutics. Dentists will also be called upon to play an expanded role in the responsibility of patients' general health by interacting more with physicians and allied personnel. The call to both improve and increase basic science instruction in dental

education has never been greater; our ability to accomplish this lies in part with the cooperative spirit underlying our relationship with the medical school, which can provide the new faculty we need

to upgrade and integrate the basic science portion of our curriculum.

Expertise in clinical education has been a strong tradition at our school, and one that must continue. The departments are seriously at work these days in an effort to make room in the curriculum for cutting-edge

Expertise in clinical education has been a strong tradition at our school, and one that must continue.

general practice procedures; they are eliminating the redundancy and overlapping of materials that tend to gradually steal their way into the program despite the watchful eye of the IUSD Curriculum Committee.

The clinical faculty is responding to curriculum reform by identifying optimal subjects and placing them in a logical sequence. The clinical departments are upgrading their specific procedures and combining them with those taught in other areas to produce an ideal sequence of care. The school's clinical program continues to evolve toward a patient-centered environment where the foremost thrust is to teach students the responsibility of providing outstanding services to their patients.

It is important to note that the process of curriculum review and enhancement is without end. It will always be possible to make good programs better, and we should never stop trying. Dedicated faculties can build strength in their dental schools—the key to maintaining excellence in the dental profession—by continuing to keep their sights set on the ongoing, multifaceted challenge of preparing students to become tomorrow's well-qualified and compassionate healthcare providers.

H. William Gilmore

Coming Up

IUSD Calendar of Events

1995

Oct 7

Dental School Admission Test, held at the dental school

Oct 7-11

136th American Dental Association Annual Session, Las Vegas, Nev.

Oct 8

IU Alumni Association Reception, 5:30-7 pm in the Indiana/Ohio Suite at Bally's Las Vegas Hotel

Oct 9-13

Dental School mid-term exams

Oct 19

Private Practice Associateship Conference, held at the dental school

Oct 28

Dental Day student recruitment program, held at the dental school

Dec 4,5

National Board Dental Examination, held at the dental school

Dec 11-14

Dental School final exams

Dec 15

Fall Semester ends

1996

Jan 8

Spring Semester begins

Feb 22-25

Chicago Dental Society's Mid-Winter Meeting, McCormick Place, Chicago, Ill.

Feb 26-March 1

Dental School mid-term exams

March 2

5th Annual Maynard K. Hine Scholarship Lecture, held at the dental school

March 11-15

Spring Break

March 13-17

American Association for Dental Research annual meeting, San Francisco, Calif.

March 16-19

American Association of Dental Schools annual meeting, San Francisco

April 1,2

National Board Dental Examination, held at the dental school

April 8

IUSD Research Day, an afternoon program for faculty, staff, students, and alumni; University Place Conference Center, IUPUI Campus

April 13

Dental School Admission Test, held at the dental school

April 29-May 3

Dental School final exams

May 3

Spring Semester ends

May 3

IU School of Dentistry Donor Recognition Celebration (by invitation), location to be arranged

May 3-5

138th Indiana Dental Association Annual Session, Indianapolis

May 6

Summer Session begins

May 12

IUPUI Commencement and IUSD Honors Day Program, Indiana Convention Center and RCA Dome

June 2-5 (tentative)

Indiana State Dental Board Examination, held at the dental school

July 8

National Board Dental Examination, held at the dental school

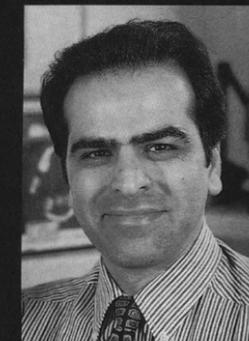
August 16

Summer Session ends

**(CONTINUING EDUCATION COURSES
APPEAR ON PAGES 19-20.)**

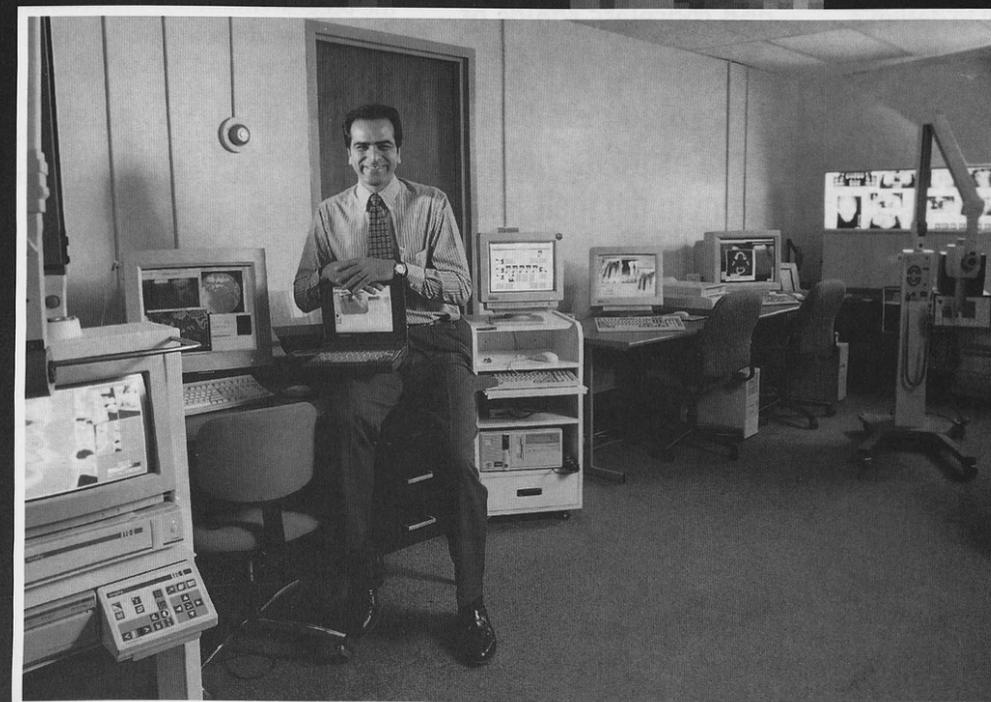
Electron Wells of Information

Photos by Doug Bartlow
Story by Susan Crum



Mostafa Analoui

Pixel by pixel,
an electrical engineer builds
a foundation for dentistry's
new Oral and Maxillofacial
Imaging Research Facility
in a suite of rooms within
the dental school's
Department of Oral Surgery,
Medicine, and Pathology.



Before joining the IU faculty Dr. Analoui worked in the computer science department of IBM's T.J. Watson Research Center, Yorktown Heights, New York. As a current member of the Diagnostic Technology Committee of the International Association for Dental Research, Dr. Analoui is helping to set worldwide standards for dental diagnostic systems.

He is by education and experience an electrical engineer and a computer scientist, but since his appointment 18 months ago as the first director of the dental school's new Oral and Maxillofacial Imaging Research Facility, Dr. Mostafa Analoui has been teaching himself to think the thoughts of a dentist.

Today, for instance, this former IBM researcher has spent the morning dwelling upon his exploration of a root canal. He approaches his task with an endodontist's intensity, interest, and inquisitiveness—but not with an endodontist's files.

To perform *his* kind of dental procedures, Dr. Analoui sits at a computer workstation, tapping on a keyboard as he generates obscure-looking computer codes and scrutinizes dental images emanating from computer monitors. These images were created by direct digital imaging (DDI), one of dentistry's newest and most promising advances in electronic technology. He is using digital radiographic images collected from the Department of Restorative Dentistry to design a software program that will provide a three-dimensional, rotational view of root canals. The goal is to help practitioners see the true length and shape of a canal before they undertake endodontic therapy on a tooth.

He wrote the computer program with input from Michael Penna, an IUPUI mathematics and computer sciences professor, and is now applying it to a variety of root canal images for fine-tuning. Graduate endodontic students also are experimenting with the program in a number of research projects. Ultimately, the goal is to add the root-canal measuring technique to an image analysis

software package containing helpful information not only for endodontists but also for orthodontists, prosthodontists, general dentists, and others. The software will be aimed at practitioners in the field as well as academic researchers.

For a man who gracefully navigates the computer world's fierce and ceaseless rapids of information, Dr. Analoui is exceptionally keen to assist folks who still aren't sure they even want to dip their toes into this technology. One aspect of his new job at Indiana University is to oversee the creation of simple-to-use, low-maintenance software for busy healthcare providers who have little professional or diversionary interest in computers.

"Dental professionals need to be able to *use* computer programs quickly and efficiently, they don't necessarily need to understand the technology behind them," he says. "Access

For a man who gracefully navigates the computer world's fierce and ceaseless rapids of information, he is keen to assist folks who still aren't sure they even want to dip their toes into this technology.

should come to them easily, with just a few clicks of a mouse."

Dr. Analoui is a proficient user of the complex language of computers, but that wasn't much help when he first stepped into the dental school and was hit with a cascade of hundreds of unfamiliar words and phrases that he needed to decipher before he could begin to apply

his engineering skills to the subject at hand. A bit ill at ease at finding himself tangling with a strange new vocabulary, Dr. Analoui swiftly came up to speed on the language of dentistry by emersing himself in the literature and by soaking up every word he heard spoken in conversations with his new Hoosier colleagues.

"I'm completely impressed by how much dentists have to know, by how many facts they are able to carry around in their heads," says Dr. Analoui, whose advanced degrees in electrical engineering are from Purdue University (PhD'92) and the Illinois Institute of Technology (MS'87). "In engineering, you rely on reasoning and induction, not much on what you memorize. Dentists and other healthcare providers, on the other hand, have to keep thousands of details related to procedures, drugs, etc., at their fingertips. If you don't remember something in engineering, you simply go to a manual to find it. But I'm sure it would be quite upsetting for a patient sitting in a dental chair to see the dentist leafing through a manual. This is the biggest difference I have noticed between the two professions."

As Dr. Analoui soon discovered, he wasn't the only doctor on the IU dental school faculty to work without mask, goggles, and gloves. He was pleased to learn that, in addition to his dental associates, he would be keeping company with an assortment of mechanical engineers, educational experts, biochemists, mucosal immunologists, molecular biologists, microbiologists, and physiologists.

The diversity of IU's dental faculty provides extraordinary opportunity for multifaceted research projects, says Dr.

Analoui, many in which the imaging facility will have a critical part to play.

Assigned to a group of rooms on the second floor in the midsection of the dental school, Dr. Analoui teamed up with dental diagnostic sciences professor Dale Miles shortly after arriving in Indy to prepare a mission statement that would define the facility's role in bringing digital data management to the school. He found his new colleagues (in what was then the Department of Stomatology, now the Department of Oral Surgery, Medicine, and Pathology) to be well-versed in the technology. Dr. Miles and Dr. Margot Van Dis, an associate professor of dental diagnostic sciences, are co-authors of textbooks related to oral and maxillofacial radiology. They had just completed a stint as guest editors for two impressive theme issues of *The Dental Clinics of North America*, one on advances in dental imaging (October 1993) and another on the clinical approach to radiologic diagnosis (January 1994).

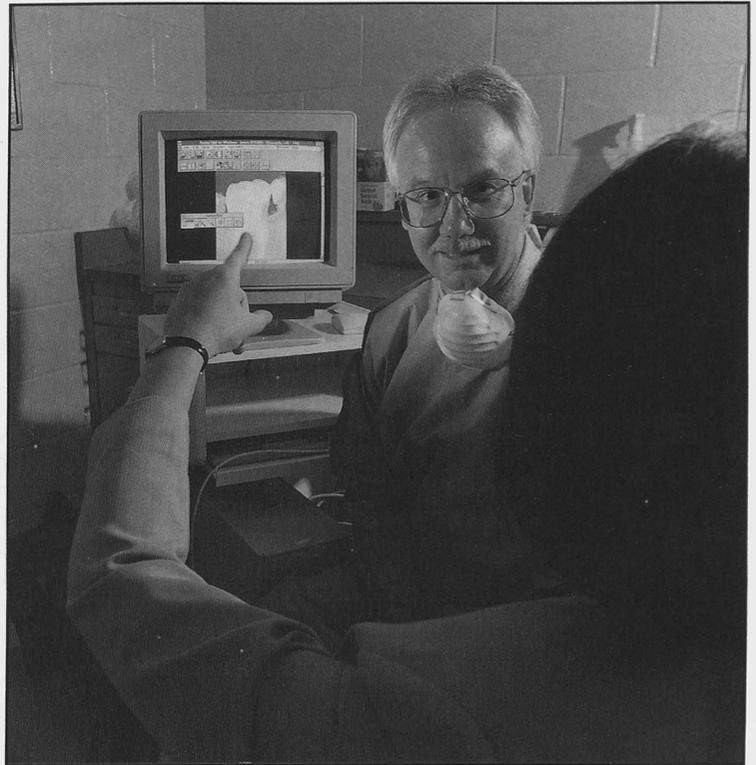
As Dr. Analoui began to acquire for the facility a collection of equipment and instruments needed for scientific computation programming, direct digital radiology, scanning, and electronic image communication, he became aware that computer acquisitions had been and were taking place in departments and divisions throughout the school. "We had been operating from the informal approach of 'I buy a system, you buy a system,'" says Dr. Analoui. "All of these technologies were evolving independently of each other, which was causing problems when it came time to share information in a meaningful way."

Dr. Analoui is well aware of the headaches, misery, and

frustration that inevitably plague a group of computer communicators whose systems often turn out to be no more compatible than the writing styles of Chaucer, Mickey Spillane, and Dr. Seuss. In contemporary society, "incompatible" has become one of the most tiresome and dreaded words in the language. It means wasted time, effort, money, and ideas. Dr. Analoui suggested to Dean H. William Gilmore that the school needed to draw up a finite plan to clearly define and map the technological direction best suited for everyone involved.

"Unfortunately, Dean Gilmore liked the idea," Dr. Analoui says with a laugh. "He asked me to write a five-year strategic plan." Dr. Analoui has spent the summer discussing computer technology with the faculty to get a feel for individual needs as well as school needs. Of utmost importance to the plan is the selection of technology that will drive the clinical operations (e.g., patient scheduling, billing, student progress) for the entire school.

"One of the problems I see in dentistry in general is that technology is created outside of the dental schools, and we are forced to use it the way it's been designed," says Dr. Analoui. "I think it's up to us to tell industry what we need and what results we expect from the equipment we're using. I call it reverse engineering, and it will be part of my proposal. Technology must be modified and adapted to meet a school's unique requirements."



"One important benefit of electronic imaging is to provide a better opportunity for dental professionals to educate patients and involve them in the treatment," says Dr. Dale Miles, an IU professor of dental diagnostic sciences and current president of the Diagnostic Systems Group of the International Association for Dental Research. "We expect the new imaging facility and the technology to boost interaction between the dental school and its graduates." Dr. Miles and Dr. Analoui are working toward developing an imaging referral service for clinicians throughout Indiana and elsewhere in North America.

Dr. Analoui plans to submit the proposal to Dean Gilmore early in the fall. "If the school is going to invest in new technology, we need to work together to select a pre-defined direction and then stay on course," he says.

Since computer scientist Shin Li was hired last winter to maintain the imaging facility's computer systems and to write software programs, Dr. Analoui has been able to focus a greater portion of his efforts on three of his most important responsibilities: helping student and faculty researchers develop projects in the facility, teaching other faculty and students to use the technol-

continued on page 9

Thinking of Taking the Technological Plunge?

Before you sign on the dotted line...

If you are on the verge of adding electronic imaging or other digital data management technology to your practice, Dr. Analoui invites you to contact him before you commit yourself to a purchase.

"If you are trying to design or purchase an imaging system, talk to us first," he urges. "We might be able to offer some helpful suggestions. The same invitation is extended to dental alumni who are looking to expand their imaging systems. If we can't come up with a solution ourselves, we can recommend other good sources of assistance."

Dr. Analoui's long-range goal is to develop the Oral and Maxillofacial Imaging Research Facility into a resource center that is available to the dental school's graduates as it is to faculty and students.

While only a small number of dentists are likely to be using direct digital imaging in their offices at this point, that number is expected to rise dramatically in the next few years as more and more dentists see the benefits of bidding adieu to the darkroom.

"Digital radiographs have many advantages over dental film," says Dr. Analoui, "the most important being that with this system a patient's exposure to radiation is reduced by at least 40 percent, and often by as much as 80 percent. DDI eliminates the need for chemicals and the time it takes to process film. If you aren't satisfied with the quality of a digital radio-

graph, you will know it instantly and can create another image while the patient is still in the chair. Images can be easily enhanced, manipulated, stored, and retrieved. Three-dimensional imaging lets you see the subject from a variety of angles. Studies, including some undertaken at IU, have shown over and over again that digital systems have the same diagnostic value as film. They are comparable in terms of detecting caries and osseous diseases—and while the resolution of conventional film has improved as much as it can, we're still in the early stages of exploring digital imaging's capabilities. DDI resolution has been improving steadily and will continue."

Cost is also comparable, says Dr. Analoui. "Film is about 15 cents per image. CCD sensors, which are designed to take about 400,000 radiographs, run between \$2,000 and \$4,000. You don't need to buy a special computer—unless it's quite old, the computer you've been using to keep books and schedule patients will suffice. You can use the x-ray machine you already own too. The CCD and an inexpensive device called an image grabber, which attaches the CCD to your computer, is all you need to create digital images in your office."

Costs climb, of course, for those who aspire to own a more sophisticated system that includes such items as intraoral cameras, scanners, color printers, CD-ROM technology for patient and

staff educational programs, and archiving (image storing) systems. Because the vast terrain of computer technology now available to dentists can seem endless and overwhelming to the novice, Dr. Analoui wants to do whatever he can to eliminate confusion and smooth the way. For IU graduates who are considering, or are in the process of, adding DDI or other electronic technology to their dental office repertoire, he suggests the following:

- Alums with access to the Internet can retrieve several informative programs that have already been placed online by Dr. Analoui. To find out what's available, or to ask him any other type of question, send him an e-mail message: imaging@iusd.iupui.edu.
- Internet users who already are digital image-makers can try sending Dr. Analoui (or receiving from him) an electronically produced radiograph. This is accomplished by using the File Transfer Protocol (FTP) server—contact Dr. Analoui if you need directions. FTP allows documents and images to be sent back and forth between computers virtually anywhere in the world, even if the computers are not otherwise compatible. (Not long ago Dr. Analoui's group wrote a research-oriented computer program and launched it onto the Internet, inviting anyone to use it for free. A few weeks later, while Dr. Analoui was attending a conference in The Netherlands, a Dutch researcher mentioned that he had

accessed the program on his computer, had found it helpful, and was now using it in his own work.)

Dr. Analoui will soon release software that lets users transmit and receive images, along with patient records, over telephone lines.

- Grads from every type of computer background—including no background at all—are welcome to arrange an appointment to tour the Oral and Maxillofacial Research Imaging Facility, where they can look around or even try their hand at some of the technology. "There is usually no fee for persons who wish to try out the computers once or twice," Dr. Analoui says, adding that routine computer access can be had for very reasonable fees. "Someone wishing to take a tour of our offices should bring a dental radiograph along so that we could demonstrate how a scanner is used to transform dental films into high quality filmless images."
- Online computer users, take note: Dr. Analoui will soon be finished designing the imaging facility's home page for placement on the World Wide Web. "Although there also will be a separate home page containing general information about IUSD," he explains, "the one I'm creating is intended as an environment for people who wish to share research and clinical information." The *Alumni Bulletin* expects to publish those addresses in the upcoming Annual Report.

continued from page 7

ogy, and writing the grant proposals that lead to significant research opportunities.

He's been pleased with the flow of graduate students into the facility thus far and is excited about many of the projects they have undertaken. "We have projects going with students in endodontics and orthodontics as well as in our own department," Dr. Analoui says. "I hold a faculty appointment in the School of Engineering and Technology, so we have electrical engineering students among the group too. They can use the facility as long as the result of their work contributes to our efforts in dental research."

A good example of the dental school fostering collaborative ventures with other IU schools and institutions elsewhere is the work being done by R.V. Krishnan, an IUPUI engineering grad student; Frantz Lohier, an engineer from France who is currently a visiting computer scientist at IU; and Dr. Lisa Mills, a faculty member at Marquette University School of Dentistry who is completing IU's master's degree in diagnostic sciences.

"The task of the engineering student and computer scientist is to write a computer program that will compress dental radiographic images, thereby making it possible to increase the number of images that can be stored on a computer disk or tape," Dr. Analoui explains. "Dr. Mills' job is to study the effects of digital compression techniques on the diagnostic value of radiographs. Of the two techniques currently under study, one has a much better compression ratio than the other. But how much information do you lose when the image is decompressed to save storage space? Is the diagnostic value comparable to the original

radiograph, or is significant information lost? These are critically important questions to answer if dentists are going to be able to rely upon decompressed images to make accurate diagnoses for their patients.

"The engineering student and computer scientist aren't interested in the radiograph per se," Dr. Analoui continues. "They could just as easily be trying to compress an outdoor scene. Dr. Mills cares nothing about drafting a computer program—she wants a tool that allows her to study radiographs. While these individuals work independently of each other, in a sense they also work together. And each of the schools will gain important information from the projects."

Digital data management holds the key to extraordinary progress in dentistry, but Dr. Analoui is acutely aware that it takes human beings to keep technology moving forward. He considers the training of faculty and students a top priority—and his greatest challenge.

"This is a new technology that continues to change rapidly, making it difficult for faculty, let alone the students, to stay abreast," he says. "The cost is also staggering when you think in terms of outfitting all the 'dental offices' we have in this big school. Our long-term goal is to gradually replace many of the school's radiographic film systems with computed systems. Our short-term goal is to provide guidance to the faculty through a series of workshops starting in the summer of '95. We have now incorporated DDI into predoctoral radiology courses, so students will be learning the

concepts and getting some hands-on application of the system in the emergency clinic. As faculty become proficient with the technology, they will transfer that knowledge to students. But we will continue to push toward the goal of making DDI part of a student's routine educational experience here."

Dr. Analoui is well aware of the frustration experienced by computer communicators whose systems often turn out to be no more compatible than the writing styles of Chaucer, Mickey Spillane, and Dr. Seuss.

Dr. Analoui was encouraged by the recent merger of IU's stomatology department, in which he was appointed, and the surgery department. "This gives us a great opportunity for the dental school to become more involved in hospital imaging," he says. "We will expand our workshops to include modalities such as computed tomography (CT) and magnetic resonance imaging (MRI). These systems have outstanding applications in dentistry. For example, three-dimensional CT scans in dental implantology allow you to go through all the steps of the procedure and 'practice' your approach to a treatment strategy before you touch the patient in the actual surgery."

As a researcher himself, Dr. Analoui has found a number of niches in dentistry that hold great fascination for him. He has already cast his eye in the direction of the Oral Health Research Institute, where colleagues there have involved him in efforts to detect dental caries so early that development of some lesions can be halted, or perhaps even reversed, before they get large enough to call for restorative measures.



A Pixel Is Worth a Thousand Words

(but here we'll try to describe one in 276)

Although they are present in every televised image, we usually "see" pixels only when they are used to obscure the identity of a person on a news program or talk show.

A pixel, or picture element, is the smallest image-forming unit of a video display. In direct digital imaging, pixels, represented by cells, serve as wells that capture and store electrons, which are emitted when x-rays strike the digital imaging sensor known as a charge-coupled device (CCD). An electronically produced radiograph or any other type of digital image is composed of a rectangular, grid-like array of thousands of tiny pixels, each of which has a specific location within the image and a particular point of brightness ranging from black to white. The computer assigns each pixel a number, which becomes its digital data

value. Electrical charges, which vary according to how many electrons are stored in each pixel well, are sent to an amplifier where the digital values are collectively transformed into a complete image that can be displayed on a computer or video monitor.

The more pixels an image is divided into, the greater the image's resolution. To achieve the effect of the photo appearing on the opening two pages of this story, a computer scanner was used to turn a print made from photographic film into a digital image. Resolution was reduced to a pixel-obvious level by using a grid made up of only 36,600 pixels. A digital image with high resolution similar to that of the original photograph would be composed of almost 13 million pixels. A typical digital dental radiograph is made up of 400,000 pixels.

"The Institute is using laser fluorescence to capture images of early lesions," he says. "By exciting the tooth with laser light, they can 'see' mineral loss that can't be detected clinically or on a radiograph. We're using a software program which allows them to analyze the images more efficiently and measure the size and depth of lesions. These are steps that we hope can eventually become part of a dentist's standard diagnostic tools—the dentist can follow a lesion's progress over time and decide what therapy, if any, is required. In addition, we've created a database, which can be accessed on the computer server by designated researchers on both sides of the street. This enables us to share data without having

to physically move floppy disks from one location to another."

With several grant applications in the works, faculty training sessions on the calendar, and a busy group of students bellied up to the computers in the imaging facility, Dr. Analoui is satisfied with the direction his work is taking him at IU. He's feeling very much at home in his new Indiana surroundings and has even joined a group of dental faculty members on the basketball court, where he is valued more for his 6 foot 3 inch frame than for his computer savvy.

One of Dr. Analoui's most appealing characteristics is that his knowledge of and enthusiasm for computer technology is governed by a level-headed, feet-

on-the-ground philosophy.

"If you are doing word processing at home, a notebook and pencil will do the job," he says. "You can also use a supercomputer—but there is absolutely no reason to."

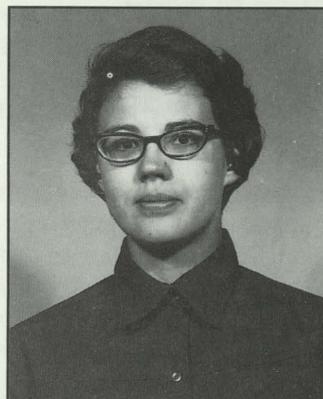
The same is true in dentistry, Dr. Analoui says. "There's a trend in some research communities at other institutions to believe that the quality of work will improve if ways can be found to involve the computer in every aspect of dentistry. That simply isn't true. Even dental imaging is not a solution for everything. While computers solve many problems, they bring a new set of issues in return. We still have the issue of privacy to contend with, for example, in regard to placing patient records online. As technology improves, the more accurate our results will be. At this early stage, digital imaging is very accurate, but it's still going to improve. If we get to a point where the accuracy of the system goes beyond what we need, I think we should stop upgrading and stick with what we have. The computer is simply a tool that gives you more options, that allows you to simplify and automate some tasks. It is nothing more."

His voice is filled with a gentle confidence and sincerity. His words are filled with common sense. We are struck by the notion that he is exactly the kind of person whose knowledge, enthusiasm, and supportive nature will be needed to help a diverse group of dental faculty, students, and alumni embrace this new technology. As the IU dental school revs up its engines to join the sometimes unbridled race toward better dentistry through computers, it is reassuring to know that Dr. Analoui is behind the wheel of IUSD's pace car. ■

Reflections

Dental hygiene alumna Karen Gable draws upon the knowledge she acquired in 4 IU degree programs to pursue a career on the IU School of Medicine faculty

by Mary Leesa Rehmel



Karen Gable posed for her first-year dental hygiene class roster photo in 1967.

“Everyone has a passion,” says Dr. Karen Gable, who is seated in her new office at Coleman Hall across the street from the dental school at the Indiana University Medical Center. “Mine is trying to discover how students learn.”

The 21-page curriculum vitae belonging to this IU School of Medicine faculty member is a testament to those words. Dr. Gable has been writing and speaking about the student learning process for the past decade of a multifaceted career that began chairside in a dental office in Crawfordsville, Ind.

Karen E. (Clay) Gable did not originally intend to devote more than a dozen years of her life to being a college student herself. Born and reared in Cedar

Rapids, Iowa, and the first member of her family to attend college, Karen headed off to the University of Iowa in 1958 with a plan to major in psychology. After learning that the road to a career in psychology was lengthy, Karen, yielding to the impatience of youth, turned her attention instead to Iowa’s four-year dental hygiene degree. There was yet another “good” reason the teenager made her choice, Dr. Gable recalls with a smile: She liked the professional looking, starched-white uniforms worn by dental hygienists!

More than halfway into Iowa’s program and progressing well as an honor student, Karen married and decided to take some time off for her family. Six years later her husband’s job landed the family in Indiana, where Karen

was able to resume her dental hygiene studies (or, more accurately, to start them from scratch, since Indiana University’s program, then under the direction of A. Rebekah Fisk, had no “advanced standing” provision).

Asked about her memories of the IU dental school in the late ‘60s, Karen remembers how strongly the importance of clinical proficiency was instilled in graduates; there was a conviction that the development of technical skills was the overriding goal. As a result, Karen believes that most of Miss Fisk’s graduates were highly motivated to remain active in their profession or in a related field. While clinical skills are still emphasized today, Dr. Gable sees more attention being paid to other important issues as well, such as service and professionalism.

After completing the Associate of Science degree with honors in 1969, Karen went to work part time for another 1969 dental school grad: Dr.



Dr. Gable on day one of a six-day intensive summer session course for graduate students in her department.

Mike Halloran

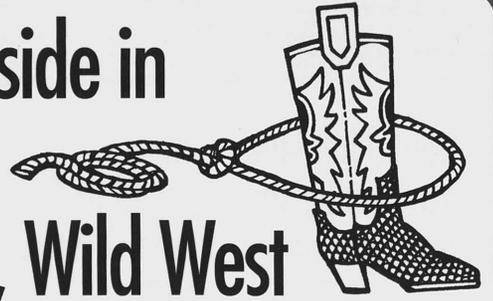
One of Dr. Gable's most colorful memories of her years as a clinical dental hygienist is the adventure she had of sitting for the Arizona state board examination in 1972. "Since Arizona had no dental school or dental hygiene school, board exams were given at the state penitentiary," Dr. Gable explains.

In addition to contending with the usual case of jitters associated with taking a test that controls your immediate future, Karen found it extra unnerving to be doing so in the middle of a desert, miles from anywhere, with a prisoner serving as her board patient. He was shackled to her chair.

"Buckets served as cuspidors," recalls Dr. Gable, shuddering at the memory. She also remembers having to haul every piece of equipment—including the chair—to the board site herself.

Karen fought both fear and chaos by mustering her self confidence. She took a decidedly assertive approach to the board. When the examiner instructed

Chairside in the Wild, Wild West



her to perform treatment procedures on the patient's entire dentition, Karen declined, informing him that his request did not represent the best treatment possible. She said she would complete only one quadrant, just as she would do in any dental office. Feeling miserable, she finished the quadrant, all the while assuming she had doomed herself.

As it turned out, Karen passed the Arizona board. And, as she learned later, she also made a hasty and timely retreat from the penitentiary, where one week after the board exam the prisoners staged a riot (presumably for reasons unrelated to their role as dental board patients).

Robert Perry, of Crawfordsville. "I was the first dental hygienist employed by Dr. Perry," says Dr. Gable, describing her experience in private practice as "wonderful. It was a real team-oriented practice."

It was in this team environment that Karen began to acquire an understanding of the value of broadening her educational horizons. Observing the office's dental assistants at work, Karen wondered if she could be of greater service to the team if she were more familiar with the many aspects of her co-workers' duties. She did more than ponder: She completed a certificate of dental assisting through the American Dental Assistants' Association.

Karen's family moved in and out of the state during the early '70s, with stays in Arizona and Washington. Upon her final return to Indiana, Karen completed an IU bachelor's degree in health occupations education, graduating with distinction in

1976. The IU School of Medicine immediately hired her as a lecturer in this field.

Feeling the need to stay a step (and a degree) ahead of her students, all of whom were baccalaureate candidates, Karen enrolled part time in IU's master's degree program in allied health sciences education. Completing it in 1979, she moved on to IU's doctoral program in higher education administration, receiving her fourth degree in 1985.

Today Dr. Gable is program director and associate professor of health sciences education in the School of Allied Health Sciences, which is under the medical school's administrative umbrella.

Although her chairside dental hygiene days are far behind her, she remains tuned in to the field through some of the students she directs in her program. In addition to working with dental hygienists and dental assistants

who wish to advance their education, Dr. Gable is involved in the education of nurses; paramedics; dental, radiation, and medical technicians and technologists; and other credentialed health occupations students pursuing bachelor's or master's degrees.

The program is well suited for persons with an interest in keeping one foot in teaching and the other in some form of healthcare practice. Graduates have settled into a variety of careers, says Dr. Gable, including teaching in vocational schools, providing inservice professional development to hospital employees, coordinating continuing education programs, and working with community services such as the American Heart Association to develop education programs.

Graduates who enjoy working with young people often obtain a standard teaching license for the state of Indiana, which enables them to teach health occupations

education at the high school level. Dr. Gable directs the only program in the state that provides the appropriate course work for the Indiana state license in health occupations education.

The passion that Dr. Gable speaks of in her quest to "learn how students learn" is apparent when she discusses the art and science of teaching. She is clearly fascinated by the interaction between educator and student, and by the manner in which a student absorbs and processes information.

"If a teacher is teaching in a way that is congruent with how a particular student learns, achievement tends to be very high," says Dr. Gable. Conversely, if an educator uses strategies that are incongruent with the way a particular student learns, the student is immediately put at a disadvantage and therefore likely to experience frustration and anxiety in an attempt to overcome the situation. In most of these cases, achievement is not as high.

"It's up to the educator to get out from behind the podium and use a variety of teaching approaches," says Dr. Gable. "Varying your techniques of questioning and evaluating students gives everyone in the class a better opportunity to learn."

Dr. Gable finds it ironic that most people in healthcare have been attracted to teaching positions, or have been asked to take them, because of their clinical ability. She believes it is incorrect to assume a correlation automatically exists between skill in the clinic and skill in the classroom.

When individuals with superior clinical skills are placed into positions as educators, they often do one of two things, says Dr. Gable: They teach the way

they themselves are comfortable learning, or—sometimes worse, teach the way they were taught. "Neither avenue lends itself to innovative educational approaches, nor does it necessarily reach a particular group of students' preferred methods of learning."

Therefore, when teaching "teaching" to health science students, Dr. Gable recommends employing different techniques that include small groups and discussion sessions. She knows this idea requires many educators to step out of their comfort zones.

"But students won't bite," she says. "And isn't it better to give each student the chance to achieve instead of immediately placing some students at a disadvantage?"

She makes it sound like good advice for everyone, whether we are instructing our patients on using a proxabrush, showing a group of pre-schoolers how to eat properly, or helping our children with homework.

"Different techniques help you find the learning style that is right for each student," says Dr. Gable. The conviction in her voice as she explains the differences in the level of learning required of a student who is filling in a "multiple guess" exam compared to one who is writing short narrative answers to test questions exemplifies the need she feels to share this information with anyone and everyone who will listen.

And many people *are* listening to Dr. Gable. In addition to sharing her philosophy with IUPUI students, she has presented talks to local groups such as the Parent Teacher Organization, and has presented refereed papers at conferences for professionals in higher education throughout the country and in

Gable at a Glance

- Current program director of Health Sciences Education, IU School of Allied Health Sciences
- Holder of 4 IU degrees (ASDH, BS, MS, and EdD)
- Frequent contributor to the *Journal of Health Occupations Education*
- National lecturer and workshop leader on topics related to higher education
- Licensed Indiana dental hygienist since 1969
- Past president of the Indiana Health Occupations Association, the Indiana Allied Health Association, and the Association of Health Occupations Teacher Educators
- The IU School of Dentistry Alumni Association's Distinguished Dental Hygiene Alumna for 1989
- Member of several honor societies, including Sigma Phi Alpha dental hygiene honorary
- Authority on the Myers-Briggs Type Indicator (MBTI), an assessment tool used by educators to study the relationship between personality types and individual preferences in learning. The MBTI was the subject of Dr. Gable's doctoral dissertation. She has been teaching a graduate course on MBTI and its applications in education for 7 years, and she now has a database of MBTI scores on more than 6,000 persons. The MBTI can help educators better understand the types of learners they have in their classrooms, says Dr. Gable, and thus better prepare themselves to meet the individual needs of those learners.
- Married to Robert W. Gable, an aerospace engineer for the Allison Advanced Development Company.
- Mother of three children: Susan K. Ward, a Purdue University graduate and interior designer in Troy, Mich.; Barbara L. Allen, a graduate of the U.S. Air Force Academy and currently a fourth-year medical student at the University of South Carolina; and R.J. Kent Gable, a graduate of DePauw University's physics program currently with the 75th Ranger Regiment, Fort Benning, Ga.

Canada (she's been to all but four states so far). She conducts workshops at the state and national levels, and has numerous publications to her credit.

We come away from our visit with this teacher feeling certain of one thing: Karen Gable loves her work. She says she enjoys coming to the medical center each day—a fact of the day-to-day pursuit of her career that has “made all the difference in the world.”

Despite the many years that now separate Dr. Gable from her own dental hygiene education, she still values many lessons learned during that time in her life. One invaluable piece of advice was passed on to her by one of her IU dental school instructors, Dick Norman (DDS'58, MSD'64), now of Alton,

Ill. The day before she was to address a class as a student teacher she nervously confided to Dr. Norman that she was grappling with a case of “butterflies.”

“The day you lose those butterflies is the day you need to walk out of the classroom,” Dr. Norman warned. The words have stuck with Dr. Gable throughout her teaching career, and she has shared them with many other educators along the way.

“Butterflies indicate that you are right on the edge,” she remarks. “They mean that your adrenaline is flowing, and that you have just the right element of apprehension to keep you more alert, more observant.” Dr. Gable made friends with her own butterflies long ago (and

yes, they still visit her often).

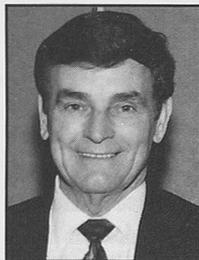
Asked if she has any advice for today's students, this highly accomplished woman reminds us that she originally had no idea where her own career would take her. She urges us to keep in mind that the paths to the future can be fascinating as well as unpredictable. “You never know what possibilities, what opportunities lie ahead,” says Dr. Gable. “Keep your options open!” 🐦

Classes

Indiana Dental Association Elects IU Grads to Top Posts

The Indiana Dental Association House of Delegates elected three IU School of Dentistry graduates to the IDA's top offices during the organization's 137th annual session in May.

■ Bremen general dentist **Charles Hassel** (DDS'67) was elected 1995-96 president. “Facing New Directions” is the theme this 28-year practicing dentist identified as the focus for his year as president.



IDA President
Charles Hassel

A member of North Central Dental Society, Dr. Hassel served as the society's component trustee in 1986. In 1990 he accepted a three-year term as chair of the IDA Budget, Finance, and Investment Committee.

Dr. Hassel is a fellow of the International College of Dentists and the

American College of Dentists.

Dr. Hassel helped bring about the fluoridation of Bremen's water system in 1975. A year later, with the assistance of State Senator Richard V. Miller, he successfully had the LaPaz School system fluoridated.

The IDA's new president is a licensed aircraft and helicopter pilot and a member of the Air Force Association.

■ **William Risk** (DDS'64), a Lafayette general dentist, was elected president-elect. One of his responsibilities in this post is to oversee implementation of the IDA's newly created Strategic Plan, which the House of Delegates passed during the annual session.

Dr. Risk is a past president and former trustee of West Central Dental Society. He also chaired the Council on Dental Education from 1984 to 1990, and helped identify the required continuing education parameters for relicensure of Indiana

dentists. He is the co-author of a manual, *Radiation Safety and Hygiene in the Dental Office*.

Dr. Risk served as a delegate to the American Dental Association between 1993 and 1994. He provided dental services to the local Headstart program for 20 years starting in 1973, and received Region Four's Distinguished Service Award in 1990. He was honored in 1989 by the Community and Family Resource Center for a decade of service to its board and a two-year term as president. He also served on the board of directors of the Centennial Neighborhood Association (1992-93).

Dr. Risk and his wife, Carol, have three grown daughters.

■ Beginning a term as the IDA's vice president is Indianapolis oral and maxillofacial surgeon **R. Dale Lentz** (DDS'67).

For the past two years Dr. Lentz chaired the Budget, Finance, and Investment Committee. He had been the Indianapolis District Dental Society's trustee since 1991.

A past president of the Indiana Society of Oral and Maxillofacial

Surgeons and the Great Lakes Society of Oral and Maxillofacial Surgeons, Dr. Lentz is a diplomate of the American Board of Oral and Maxillofacial Surgery.

Dr. Lentz serves on the staff of five Indianapolis hospitals and has taught surgery residents at Methodist Hospital since 1975.

Recently Dr. Lentz worked with the Marion County Health Department to establish protocols for dentists to comply with infectious waste laws. A few years ago he introduced the IDA resolution that led to the establishment of the Donated Dental Services program, which provides dentistry to disabled, mentally retarded, and financially handicapped citizens of the state.

Dr. Lentz and his wife, Phyllis, reside in Fishers and have three children.

FACTS FROM THE FIELD

1926 • We've received a note from **Harold Dimmich** (DDS), 1010 Cumberland #509, West Lafayette, IN 47906, who has learned that his classmate **Norman Enmier**, of Tulsa, Okla., is deceased. Dr. Dimmich himself turned 91 last year, and still enjoys a few holes of golf occasionally.

1950 • We've received a career update from **Jack Light** (DDS), 104 New Mark Esplanade, Rockville, MD 20850, who says in part:

After graduation and an interrupted general practice residency, I suddenly appeared in the 25th Infantry Division Dental Corps on the front lines of Korea during the active fighting. Safely back to New York, I was in private practice in New York until 1976 when I and my family (including two daughters) moved to the Washington, D.C. perimeter.

I entered a master's degree program at New York University School of Dentistry for a board-eligible program in prosthetic dentistry and continued another year in a National Cancer Institute fellowship in maxillofacial prosthetics. I have since been very involved with the clinical research of oral functional disorders and treatment of oral motor disorders.

I received training in a speech science program at Columbia University and have incorporated the additional discipline of physical medicine concepts into prosthetic rehabilitation treatment of patients with dysphagia and dysarthria. After 15 years of clinical research I designed and have just manufactured a commercial product



Hoosier/Hinman Connections. A quartet of IU dental grads took an Indiana interim during the Thomas P. Hinman Dental Meeting in Atlanta, Ga., in March. They are, from left: **Clifton Dummett Jr.** (DDS'69, MSD/pediatric dentistry '71), **Donald Arens** (DDS'59, MSD/endodontics '72), **Gerrit Hagman** (DDS'61, MSD/periodontics '63), and **Raymond Klein** (DDS'62, Certificate/pediatric dentistry '64). Dr. Dummett is professor and coordinator of postgraduate pediatric dentistry at Louisiana State University and chief of pediatric dentistry at Charity Hospital, New Orleans. Dr. Arens directs IU's dental continuing education program. Dr. Hagman, a private practitioner in Atlanta, chaired this year's Hinman meeting. Dr. Klein practices in Jacksonville, Fla., and is now serving as 5th District Trustee to the American Dental Association.

called THERASPOONS. It consists of a series of hand-held exercisers for lip and tongue incompetency for speech pathology professionals to add tactile cuing feedback to their auditory and visual feedback treatments. I have always used palatal augmentation prostheses with special compensatory designs coupled with an exercise program to model tongue and lip movements for speech and swallowing disorders. As few people receive this therapy, I designed these exercisers to complement the intraoral dentition retained palatal exercisers.

Presently I am on a Switzer Fellowship from a government rehabilitation agency. I am studying the possibility of creating a system of assessment tests for the prosthodontist working with functional disorders. With reimbursement in the rehabilitation field limited to payments to the chosen few, the valid tests may allow prosthodontists not only to evaluate their own treatments but also validate the treatment results with the interdisciplinary team members and third-party payment groups.

1959 • The **Stan** (DDS) **Hermans** send cyberspace greetings to all of their IUSD Alumni Association

friends. Stan and Phyllis are enjoying their retirement in Bonita Springs, Fla., and were back in Indy in June '95 to participate in the biennial meeting of the IU Pediatric Dentistry Alumni Association.

1964 • **Jon Lindsay** (DDS), San Jose, Calif., says: *Thanks for publishing some of the dental school's e-mail addresses in the Vol. 9, No. 2 issue of the Alumni Bulletin. Glad to see Indiana is making itself known on the 'Net.*

1967 • He's a new president who drives an old car. A very old car, according to an article appearing in the *South Bend Tribune*. IDA President **Charles Hassel** (DDS), Bremen, cites reliability as one of the chief reasons he's driven his 1969 Ford LTD more than 230,000 miles to date. That, and he enjoys being recognized around town. The jalopy is a bit rough around the edges at this point (Dr. Hassel secures the driver's side door with a padlock and can only open the trunk with a bread knife), but all the important parts are still working. The Ford also has weathered some rather whimsical paint jobs over the years—right now it's Purdue black and gold with an IU

shark on the front fender. (If you start running out of new hues to consider, Dr. Hassel, remember that the official color for dentistry in academic circles is lilac—we don't know if you can cover Purdue black with lilac, but we certainly urge you to try.)

1970 • Thomas Winkler III (MSD/endodontics), Boston, Mass., has been promoted to clinical professor in the Department of Endodontics at Tufts University School of Dental Medicine.

1972 • James Fouts (DDS), Seymour, was among the top finishers of the 1995 "500" Festival Mini-Marathon, held in Indianapolis on May 5. Dr. Fouts came in third place in the men's wheelchair division, finishing ahead of all the runners. Some 15,300 people from all over the world participated in the 19th annual, 13.1-mile race. Participants began on Monument Circle, took a lap around the Indianapolis Motor Speedway, and flew by the dental school on their way back to the Circle. (Those of us with offices in the northernmost part of the building had a splendid view of the race from our windows.) Dr. Fouts' time was 1 hour, 1 minute, and 10 seconds, which put him 57 seconds ahead of the winning runner, Rolando Vera, of Ecuador. Way to go, Dr. Fouts!



Dr. Eric Bothwell receiving the J.D. Lane Research Award from Dr. Joycelyn Elders, then Surgeon General of the United States.

1973 • Eric Bothwell (DDS), Rockville, Md., received the 1994 U.S. Public Health Service J.D. Lane Research Award for writing a paper titled "The World Health Organization International Collaborative Study of Oral Health Outcomes: Preliminary Results from Indian Communities." The competition was open to all agencies and disciplines with the U.S. Public Health Service.

Dr. Bothwell was project director for the Indian Health Service's participation in this five-year multinational study. He currently serves as director of Dental Research and Program Communications for the Indian Health Service in Rockville. Dr. Bothwell, who holds two master's degrees and a PhD in addition to his dental degree, is the only multiple winner of this award, having also received it in 1987 and 1991.

1973 • Congratulations to Leonard Scott (DDS), Indianapolis, who was among several men to receive a Living Legends in Black award during Black History Month last February in Indianapolis. Living Legends in Black honors the exceptional achievements of African American men whose dedication, commitment, and accomplishments have made a positive impact in the Black community as well as in the state of Indiana. This year's celebration honored persons who have excelled as entrepreneurs. In addition to his career as a dental practitioner, Dr. Scott is a successful producer of gospel music for Tyscot Records Inc., which he founded about 20 years ago.

1974 • Kathy Avers (ASDH-IN, BS'82/health services management) has joined the staff of **Therese Block** (ASDH'78-IN, DDS'92), in Bloomington. Ms. Avers has practiced dental hygiene in Bloomington for more than 20 years.

1980 • David Douglas (DDS) is now in association with his former classmate, **Howard Wiesjahn** (DDS), at 132 E. Michigan St., New Carlisle. Dr. Douglas was the supervisor of dental services for the Indiana State Correctional Facility in Michigan City for the past 13 years. He also has had a private practice in South Bend since 1984. He is a past president of the Indiana Public Health Dentists organization.

1980 • Professor Evelyn Oldsen, director of the IU dental school's dental hygiene program, has received a nice note from **Joy (Mallatt) Graden** (ASDH-IN), whose new address is 3 Brittany Ct., Bloomington, IL 61704. Joy's husband, who is an attorney for an insurance company, was promoted to corporate headquarters in Bloomington. "It seems like a nice community to raise our three boys, ages 2,5, and 8, and we love the new home we had built," she says.

1981 • Ricardo Kriebel Coronado (MSD/prosthodontics), San Jose,

Costa Rica, says: *Everything is coming along fine here in Costa Rica, including my dental practice, which I share with my father. I always see many friends from Indiana at the John F. Johnston Society dinner in Chicago, which is very nice and keeps me in touch, along with the Alumni Bulletin, which is great! I became connected to the Internet about one month ago and am using the service extensively. It sure is fantastic, and the e-mail is great.*

1981 • Michael Roda (MSD/prosthodontics), Halifax, Nova Scotia, Canada, says: *I would be delighted if you would include my e-mail address in (the bulletin). I would be especially interested in e-mail contacts of any kind with alumni of the grad program from 1980 to 1982. Life is going great these days, with the exception of the loss of my father to cancer this past Christmas. In all other respects, however, I can't complain. My wife, Vicki, the two children—Richard, 12, and Nicole, 7—and most recently our new (first) dog, a Dalmatian named Cookie, are all fine. The humans send their regards. Vicki would like to hear from some of the friends we made during those fun times in Indianapolis as well. My professional time is split currently at about 80-90 percent private practice versus 10-20 percent teaching at Dalhousie University. The practice is quite busy—a blessing in these difficult economic times. I am sure that this is in part due to the excellent grad program I attended! I get to see some familiar faces each February at the Chicago meetings. This year I have the honor to serve as president of the John F. Johnston Society for Advanced Prosthodontics, the alumni of the prosthodontics program. This is quite a year for the group. The society is having a special meeting in July '95 in Singapore in conjunction with the annual session of the International Association for Dental Research. Hi to all in the IUSD grad prosthodontics division!*

1984 • Last fall Dell Ford of Fort Wayne's *Journal-Gazette* wrote a story about local oral surgeon **Steve Butler** (DDS), but it contained little about teeth. Instead the article described Dr. Butler's success as a writer and singer of children's songs, and the creator of two children's albums titled *All Myself* and *Looking at Me*. The talented musician also performs live, and, at the time of the article last October, was getting ready to take the stage for a concert to benefit Erin's House for Grieving Children Inc. at Fort Wayne's Performing Arts Center.

Originally looking to create a special

Nothin' But 'Net

If you have an address on the **Internet**, you can share it with the dental school's alumni by launching an e-mail note to me. Whenever room provides, I will print e-mail addresses in this column of the *Alumni Bulletin*. Please feel free to include some news about yourself as well.

C'mon, 'Netters. I know there's more than nine of you out there!

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homemade Christmas gift for his children, Ashley and Jeffrey, and inspired by words of encouragement he had once received from the 1970s folk singer Harry Chapin, Dr. Butler wrote two songs and recorded them in his basement in 1991. These led to others, and before he knew it he was selling them to a local store on consignment. Eventually he had his songs re-recorded professionally. Last fall Dr. Butler's second album, *Looking at Me*, was available at several outlets, including Meijer stores.

1984 • Nora Harmsen's (DDS) favorite food is cherry pie, but that doesn't mean this Mishawaka dentist and cooking enthusiast is lacking a tasty-sounding recipe for *Homespun Scalloped Potatoes*, which follows:

1 (8-ounce) package cream cheese
(can use low-fat)

1 1/4 cups milk

1/2 teaspoon salt

1/4 teaspoon pepper

4 cups potato slices, cut thin

2 tablespoons chopped chives

Directions: In large saucepan, combine cream cheese, milk, salt, and pepper. Stir over low heat until smooth. Add potatoes and chives, mixing lightly. Spoon into 1 1/2 quart casserole; cover. Bake at 350 degrees for 70 minutes or until potatoes are tender. Stir before serving. Makes 6 servings.

The scalloped potatoes dish was one of four mouth-watering recipes that Dr. Harmsen shared with readers of

the "Weekend Chef" column written by Maria Caroff for the *South Bend Tribune* last winter. Pictured in the story chopping onions for a shrimp dip she makes, Dr. Harmsen said she developed her interest in cooking by growing up in a home with a mom who was "the best cook in the world." Dr. Harmsen counts among her most memorable cooking moments the preparing of cakes for her sister Marla's wedding, her parents' 25th and 40th wedding anniversaries, and her grandparents' 50th wedding anniversary.

1986 • William Marchi (MSD/periodontics) has gone into private practice; his new address is 4850 N. 9th Ave., Pensacola, FL 32503.

1988 • W. Patrick Naylor (MS/dental materials), a lieutenant colonel stationed at Wright-Patterson Air Force Base in Dayton, Ohio, has written a book titled *A Beginner's Guide to Saving and Investing: 10 Steps to Financial Success*, published by Editions Q Inc., Carol Stream, Ill. According to the *Harvard Dental Bulletin*, a publication of the Harvard School of Dental Medicine, where Dr. Naylor received postdoctoral training in prosthodontics, the book is "a guide to investing in dividend reinvestment plans and shows how to work with certain brokers to buy very small amounts of common stocks to gain access to dividend reinvestment and stock-purchase plans."

1990 • Navy Lt. Owen Forbes (DDS) is one of 5,500 sailors and marines who spent the winter and spring of 1995 undertaking a six-month deployment to the Western Pacific

Ocean and Persian Gulf with the aircraft carrier USS Constellation, the lead ship of a seven-ship battle group. They were in the Persian Gulf to support the enforcement of the no-fly zone over southern Iraq and the ongoing maritime interception operations in the area. The deployment included on-shore visits to Hong Kong and the United Arab Emirates. Dr. Forbes, who is from Honolulu, Hawaii, joined the Navy in 1994.

1992 • "I love pediatric dentistry," Jennifer Satterfield (DDS) told *The Indianapolis News* for a feature story that appeared last fall. "It's what I've been called to do." In an article by Ann-Marie Whitfield, Dr. Satterfield talked about a decision that led her off the modeling runway and onto a satisfying career path in dentistry. During her dental student days Jennifer was a highly successful model for the Helen Wells Modeling Agency; her photos appeared in many local and national publications. Even though her goal at the time was simply to hold down a part-time job like most other dental students, Jennifer was talented enough (and in enough demand) to turn modeling into a serious career. Her interest in working with children eventually helped her choose a job that would require her to don an OSHA-agreeable gown instead of an evening gown. After completing a pediatric dentistry residency at Case Western Reserve University she returned to Indianapolis, where she treats patients in her private practice and at two of the city's hospitals.

NEW ADDRESSES

1931 • **Frederick Fugazzi** (DDS), Countryside Village, 5630 Linworth Dr., Worthington, OH 43085

1936 • **Raymond Wurtz** (DDS), 501 N. 17th Ave., Beech Grove, IN 46107; phone (317) 786-7240

1955 • **W. Kelley Carr** (DDS), 6 Hitching Post Rd., West Lafayette, IN 47906

1976 • **Barbara Boyd McConnell** (ASDH-IN), 6970 S. Fieldgate Ct., Baton Rouge, LA 70808

1978 • **Anita Murray-Clary** (DDS), 2445 S.W. Wanamaker Rd., Topeka, KS 66614; phone (913) 272-6060

1979 • **James Higgins** (DDS), 450 Morningbird Ct., Carmel, IN 46032

1984 • **Sarah Jane Beasley** (ASDH-IN), 4625 Mimi Dr., Apt. C, Indianapolis, IN 46237

1987 • **Gary Llewellyn** (DDS), 8740-21 Villa La Jolla Drive, La Jolla, CA 92037; phone (619) 458-1067

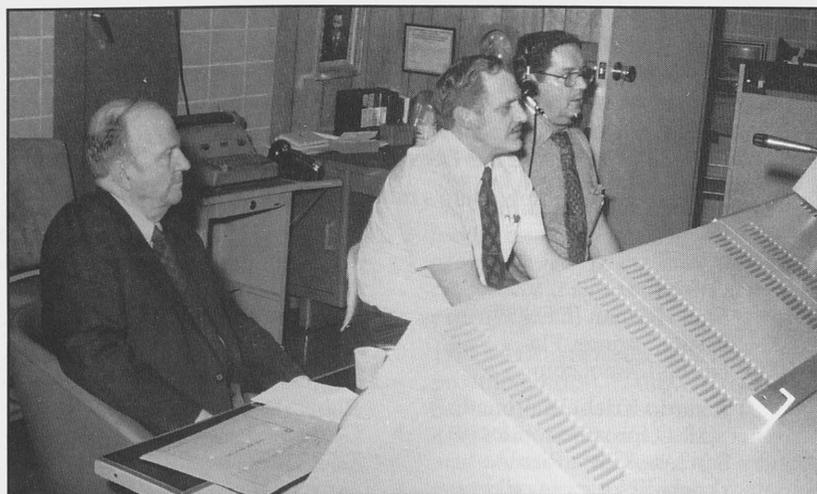
1991 • **Lisa (Lloyd) Kirchoff** (Certificate/dental assisting-IN), 16189 N. State Rd. 9, Summitville, IN 46070

Indiana Epidemiology Newsletter Available to Dental Professionals

Dr. **Charles Sinclair** of the Indiana State Department of Health's Epidemiology Resource Center has informed us that the *Indiana Epidemiology Newsletter*, a monthly publication of the ISDH, is available at no charge to all dentists and allied dental professionals in the state. "The newsletter provides timely information on public health and epidemiologic trends of interest to health professionals," he says. Persons serving on local boards of health are encouraged to subscribe. Call (317) 383-6412 to receive a free subscription.

CORRECTION

In the last issue of the *Alumni Bulletin*, the name of alumnus **Marcel Polz** (DDS '44-April) was inadvertently left off the School of Dentistry's annual list of donors. Barry Smith, IUSD director of development, reports that Dr. Polz, of Estacada, Ore., is a Century Club II Fellow. We thank Dr. Polz—and the school's many other loyal supporters—for the generous gifts that play an invaluable role in IU's dental educational programs.



Hal Jaynes (right) at the controls during a special satellite-assisted television conference in the 1970s for the IU dental school and two Westcoast dental schools. With him are Charles Anderson (center), then an engineer with the school, and Paul Barton, then an IU professor of community dentistry.

OBITUARIES

IUSD Employee

Dedicated IUSD staff member **Harold (Hal) Jaynes**, Brownsburg, died May 13, 1995. Mr. Jaynes had served as director/producer of the School of Dentistry's television division for 16 years, retiring from his full-time position in 1989. He held a part-time position in the school at the time of his death.

An outstanding behind-the-scenes professional, Mr. Jaynes provided the expertise that was needed to bring countless faculty projects to fruition in the school's fifth-floor television studio, where educational tapes were created. He played a key role in the success of a dramatic "first" in inter-faculty communications in the late 1970s, when IU's dental faculty, using satellite-assisted television, "met" with professors at two California dental schools to discuss faculty development. The live conference was made possible with the help of NASA and talented local employees like Mr. Jaynes, who directed the coverage of IU participants.

Mr. Jaynes was a Navy veteran of World War II. He is survived by his wife, Betty Jean; a son, Lynn; a daughter, Vicki Jackson; and three grandchildren.

IUSD Alumni

1939 • **Saul Herman** (DDS), Cincinnati, Ohio, died May 23, 1995. A captain in the Army Dental Corps, he served from 1942 to 1946. Dr. Herman practiced in Indianapolis until 1972 and in Lawrenceburg until 1980. He is survived by his son, Charles.

1945 • **Mrs. Robert (DDS) Anderson**, 443 Lasher Dr., Seymour, IN 47274, has notified the school of her husband's death on March 5, 1995. Dr. Anderson had practiced in Seymour for 49 years.

1945 • **James Ricketts** (DDS), Venice, Fla., died June 11, 1995. A Navy veteran of World War II, he had practiced in Kokomo until his retirement in 1986. He was a life member of the IU Alumni Association. Dr. Ricketts was the widower of Mary Lou Carmichael Ricketts. His survivors include his wife, Mary Lou Donoghue Ricketts; daughter, Ellen Fields; son, James "Andy" Ricketts; and his brother, Dr. **Robert Ricketts**, of Scottsdale, Ariz., who also was James' dental classmate and a graduate of the Class of '45.

On Course

Indiana University School of Dentistry Continuing Education Calendar

(Courses held in Indianapolis unless otherwise stated.)

September 14-16

CE-358 53rd Fall Dental Alumni Conference (held in Bloomington):

Nutrition: Information to Sink Your Teeth Into (Friday's lecture)

Lecture by *Dr. Carol Friesen-Schroeder, Marion County (Indianapolis) Health Department; Table Clinics by IU Faculty and Graduate Students (Saturday)*

September 20

CE-359 Diagnosis and Management of Temporomandibular Disorders: A Multidisciplinary Approach (lecture and workshop)

Dr. Mark Saxen, IU assistant professor, Department of Oral Surgery, Medicine, and Pathology

September 22

CE-360 Infection Control and OSHA Requirements for Dentistry

Dr. James Cottone, University of Texas Health Science Center at San Antonio

September 29

CE-362 New Aspects of Clinical and Esthetic Dentistry

Dr. Gordon Christensen, Clinical Research Associates, Provo, Utah

September 30

CE-365 Comprehensive Early Mixed Dentition Treatment (limited to orthodontists)

Dr. Steven Dugoni, San Francisco, Calif.; and

Present and Future of Dental Practice and Education (limited to orthodontists)

Dr. Arthur Dugoni, dean, University of the Pacific School of Dentistry, San Francisco

October 7-11

American Dental Association Annual Session (held in Las Vegas, Nevada)

October 11

CE-367 Radiology for Dental Personnel (lecture)

Gail Williamson, IU associate professor, Department of Oral Surgery, Medicine, and Pathology

October 13

CE-345 Academy of General Dentistry's Hoosier Concept '90s and Beyond: Operative Dentistry (followup to course last April)

Dr. Michael Cochran, IU professor, Department of Restorative Dentistry

October 13,14

CE-368 Practical Orthodontic Therapy for the General Dentist

Dr. Gordon Arbuckle and Dr. William Hohlt, IU associate professors, Department of Oral Facial Development

October 14-16

CE-370 AGD Hoosier Concept '90s and Beyond: Basic Health Sciences Review

Dr. Mark Saxen

October 20

CE-371 Sharpen Up! An Instrument Workshop for Dental Hygienists

Trudy Short, Training and Organizational Development, Stanley, Kansas

October 28

CE-374 CPR: Basic Life Support for Dentists and Allied Dental Professionals (healthcare provider course)

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

November 2,3

CE-373 Advanced Endodontic Concepts, Technology, and Techniques (lecture and workshop)

Dr. Donald Arens, IU associate professor, Department of Restorative Dentistry

November 8

CE-377 Indiana State Board Dental Examination Preparation (laboratory workshop)

Dr. Philip Rake, assistant professor, and Dr. Joseph Legan, clinical assistant professor, IU Department of Restorative Dentistry

November 16-18

CE-376 Regaining Pleasure and Success with Complete Dentures—The Earl Pound Demonstration Course

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

December 1

CE-379 The Role of the Dental Hygienist in Establishing Patient Trust (1995-1996 Dental Hygiene Series, Part I)

Dr. Robert Lockhart, Indianapolis, and Dr. Donald Arens

December 8

CE-382 Indiana Dental Association/Indiana University School of Dentistry Academy of Continuing Education: Taking the Stress Out of Bonding—A Recipe for Success

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

January 10

CE-387 Radiology for Dental Personnel (lecture)

Professor Gail Williamson

January 13

CE-387 Radiology for Dental Personnel (laboratory)

Professor Gail Williamson

January 19,20

CE-389 Endodontic Surgery for the General Dentist (lecture and workshop)

Dr. Donald Arens

January 27

CE-390 Current Concepts for Allied Dental Professionals

Presented by IU faculty in preventive and community dentistry, orthodontics, pediatric dentistry, and oral and maxillofacial surgery

February 2

CE-392 Esthetic Dentistry: Materials and Techniques

Dr. Ross Nash, Charlotte, N.C.

February 9,10

CE-393 Lingual Appliances: A Typodont Workshop (limited to orthodontists) Dr. J. Courtney Gorman, assistant professor, and Dr. Gordon Arbuckle, associate professor, IU Department of Oral Facial Development

February 16

CE-395 Rational Use of Antibiotics and Analgesics in the Dental Practice Dr. Mark Wohlford, acting chair, IU Department of Oral Surgery, Medicine, and Pathology

February 22-25

Chicago Dental Society's Mid-Winter Meeting (held in Chicago, Ill.)

February 23

CE-397 What's New in Dental Hygiene? (Dental Hygiene Series, Part II) Lynda Young Kreischer, University of Minnesota

February 29

Reminder: DEADLINE FOR CONTINUING EDUCATION CREDENTIALS TO BE FILED WITH THE HEALTH PROFESSIONS BUREAU

March 1

CE-399 The 1996 Jarabak Memorial Lecture (limited to orthodontists) Dr. Lysle Johnston Jr., Ann Arbor, Mich.

March 2

CE-400 5th Annual Maynard K. Hine Scholarship Lecture: Practical Prosthodontics Dr. Sumiya Hobo, International Dental Academy, Tokyo, Japan; Dr. Ned Van Roekel, Mayo Clinic, Rochester, Minn.; and Dr. Ronald Blackman, University of Texas Health Science Center at San Antonio

March 21-24

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

March 22,23

CE-404 Periodontal Surgery for the General Dentist (lecture and workshop) Dr. Donald Weissman, North Aurora, Ill., and Dr. Donald Newell, IU associate professor, Department of Periodontics and Allied Dental Programs

April 12,13

CE-409 Oral Cancer and Precancer Symposium—Recognition and Treatment Dr. Susan Zunt, IU associate professor, Department of Oral Surgery, Medicine, and Pathology (moderator)

Speakers: Dr. John Wright, Baylor College of Dentistry; Dr. Steven Benner, University of North Carolina; Dr. Linda Lee, University of Toronto; and Dr. Robert Ord, University of Maryland

April 19

CE-412 Restorative Dentistry Update Dr. Norman Feigenbaum, Broward Community Dental Research Center, Fort Lauderdale, Fla.

April 19

CE-370 AGD Hoosier Concept '90s and Beyond: Basic Health Sciences Review (followup to October '95 course) Dr. Mark Saxen

April 20-22

CE-413 AGD Hoosier Concept '90s and Beyond: Comprehensive Endodontics Dr. Donald Arens

April 26

CE-414 Building the Dream Practice Jennifer de St. Georges, Jennifer de St. Georges & Associates, Monte Sereno, Calif.

April 27

CE-415 CPR: Basic Life Support for Dentists and Allied Dental Professionals (healthcare provider course) Sue Kelly

May 3,4

Indiana Dental Association's 138th Annual Session

May 8

CE-417 Radiology for Dental Personnel (lecture) Professor Gail Williamson

May 11

CE-417 Radiology for Dental Personnel (laboratory) Professor Gail Williamson

May 17

CE-420 Modern Methodology in the Diagnosis and Treatment of Periodontal Disease (Dental Hygiene Series, Part III) Dr. Edwin Rosenberg, Philadelphia, Pa.

June 7

CE-422 IDA/IUSD Academy of Continuing Education: Problem Solving for the Restorative Dentist Dr. Terry Tanaka, University of Southern California

LOOKING AHEAD

September 21, 1996

The International Bone Conference Dr. Eugene Roberts, IU chair, Department of Oral Facial Development, leads the conference, which includes presentations by bone pathologists, physiologists, diagnosticians, and other researchers

November 15, 1996

IDA/IUSD Academy of Continuing Education: Current Developments in Restorative Materials and Techniques Dr. Karl Leinfelder, Leinfelder Enterprises, Calabash, N.C.

For information about course fees, credits, and registration, contact: Dr. Donald Arens, director of Continuing Education, Indiana University School of Dentistry, 1121 West Michigan Street, Indianapolis, IN 46202-5186.

phone: (317) 274-7782 fax: (317) 274-2419 e-mail: ce@iusd.iupui.edu



Let's Rally at the Bally

You're Invited

The Board of Directors
of the Indiana University
School of Dentistry Alumni Association
and the IU Alumni Association Staff
welcome you to drop by
the IUSD alumni reception
during the
American Dental Association's
136th Annual Session
in Las Vegas, Nevada

When: *from 5:30 to 7 pm on Sunday, October 8, 1995*

Where: *The Indiana/Ohio Suite at the Bally Hotel of Las Vegas*

*No reservations necessary.
For more information, call (317) 274-8959*

Honors Day '95

Hundreds gather at the Indiana Convention Center to give dental school graduates a memorable send-off

Photos by Mike Halloran



Class Presidents: Bret Bologna, Dentistry; Erin Cullen, Dental Hygiene; and Kimberly Starrett, Dental Assisting

GRADUATING WITH HIGH DISTINCTION

DDS Candidates
Kimberly A. Edwards
Timothy J. Frey

ASDH Candidates
Lynn R. Bates
Trina K. Henderson
Stephanie A. Scott
Trinity M. Tungate

GRADUATING WITH DISTINCTION

DDS Candidates
David C. Miller
Edward M. Sammons
Lana R. Stoll
Brian P. Tate
Michelle L. Wittler

ASDH Candidates
Elizabeth A. Hartman
Annette D. Roby McNew

Proud moms were in abundance at the Indiana Convention Center and RCA Dome on Mother's Day, May 14, 1995. So were dads, spouses, children, and hundreds of other relatives and friends of the dental school's newest grads, who assembled in their caps and gowns for the traditional honors program signaling the close of the academic year.

Dean H. William Gilmore presided over the Honors Day program, which included farewell addresses by the class presidents and the presentation of awards by IU faculty, leaders in organized dentistry, and other friends of the school.

Graduates of dentistry, dental hygiene, dental assisting, and postdoctoral programs were announced by Dr. E. Brady Hancock, chair of the Department of Periodontics and Allied Dental Programs.

A W A R D S

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

THETA THETA CHAPTER OF OMICRON KAPPA UPSILON DENTAL HONOR SOCIETY

Kimberly A. Edwards
Timothy J. Frey*
Joseph R. Gregg
Scott Kooistra
Edward M. Sammons
Lana R. Stoll
Brian P. Tate
Tamara L. Watkins
Michelle L. Wittler

*also named OKU Outstanding Student

THETA CHAPTER OF SIGMA PHI ALPHA DENTAL HYGIENE HONOR SOCIETY

Lynn R. Bates
Michele L. Heck
Annette D. Roby McNew
Lora L. Pope
Trinity M. Tungate
OKU and Sigma Phi Alpha ceremonies were conducted during the annual awards banquet, University Place Conference Center, April 19.

DENTAL ASSISTING

Kristi R. Blaker
Harriett F. Hine Clinical Achievement Award

In memory of the wife of Dr. Maynard K. Hine, IUPUI chancellor emeritus and dean emeritus of dentistry.

Jessica R. Gibson
Harriett F. Hine Academic Award

DENTAL HYGIENE

Patricia Sue Barlow
Rossya Kaufman Memorial Award
(co-recipient)
Named for 1958 graduate of IU's dental hygiene program.

Lynn R. Bates
*IUSD Alumni Association's
Harriett F. Hine Award*

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

In memory of Frank and Jessie Johnson, parents of alumnus Dr. Donald W. Johnson, Carmel.

Krista M. Campbell
Procter & Gamble Co. Prevention Award

Dee Anna Lynn Fratus
Hu-Friedy Clinical Achievement Award

Trina K. Henderson
Dr. Tillman E. Miller Clinical Achievement Award (co-recipient)
In memory of 1980 dental graduate and Elkhart practitioner.

Annette D. Roby McNew
Johnson Public Health Dental Hygiene Scholarship Award
(co-recipient)

Julie D. Nelson
A. Rebekah Fisk Memorial Award of the Indiana Dental Hygienists' Association
Named for IU's first director of dental hygiene.

Angela S. Patterson
Rossya Kaufman Memorial Award
(co-recipient)

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

DENTISTRY

Jeffrey T. Allen
Academy of Dental Materials Award

Chad G. Ashley
Indianapolis General Dentistry Study Club Award

Richard L. Beckermeyer
The NutraSweet Company's Fourth Year Essay Award (co-recipient)
Essay title: "Osteogenic Imperfectas—A Case Study"
American Equilibration Society Achievement Award

Christine Bishop
International Congress of Oral Implantologists Award

Bret A. Bologna
American Student Dental Association's Award of Excellence
Presented at the Class of 1995's Banquet, Marott Apartments, May 5.

Kimberly A. Edwards
American Association of Orthodontists Award
(co-recipient)

American Academy of Oral and Maxillofacial Pathology Award

Timothy J. Frey
Glenn J. Pell Award of the Indiana Society of Oral and Maxillofacial Surgeons

In memory of 1912 Indiana Dental College graduate and longtime faculty member.

Quintessence Publishing Company Award

For Clinical Achievement in Restorative Dentistry.

Alpha Omega International Dental Fraternity Scholarship Award

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

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

Chancellor's Scholar Award
Presented at IUPUI Chancellor's Honors Convocation, University Place Conference Center, April 28.

Joseph R. Gregg
Indiana Dental Association Award
Academy of Operative Dentistry Award

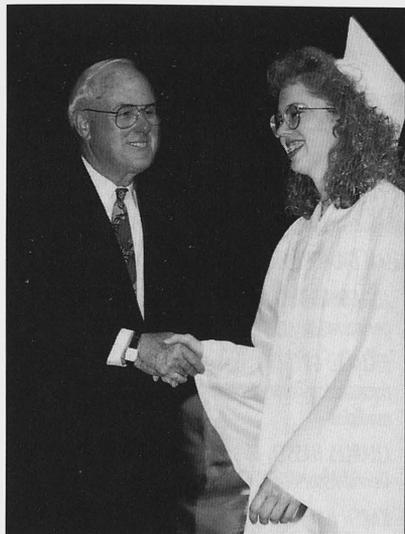
Dr. Tillman E. Miller Clinical Achievement Award

Pierre Fauchard Academy Indiana Section Award

Presented during the Academy's annual meeting, Indiana Convention Center, Indianapolis, May 5.

American College of Prosthodontists Award

Presented during the College's annual banquet, Indiana Convention Center, May 6.



Dean H. William Gilmore congratulated each graduate, including new dental assisting alumna Mary Masten.

Bradley R. Handick

Dr. Charles E. and Janice B. Kem Award

In memory of 1929 IU dental graduate, and in honor of Dr. Kem's wife.

Tamara L. DeReamer Hiester

American Association of Orthodontists Award (co-recipient)

Christopher C. Hulen

American Association of Oral and Maxillofacial Surgeons Award

Scott Kooistra

Indiana Society of Periodontists Award

IUSD Alumni Association's Maynard K. Hine Award

John K. Loudermilk

American Academy of Oral Medicine Award

Tamela L. Rees

The NutraSweet Company's Fourth Year Essay Award (co-recipient)

Essay title: "An Evaluation of the Quality of Care of Patients at Indiana University School of Dentistry"

Organization of Teachers of Oral Diagnosis Award

Linda A. Regan

International College of Dentists Award

James L. Maus Memorial Scholarship Award

In memory of owner of Maus and Elam Dental Laboratories.

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

Edward M. Sammons

Indiana Society of Pediatric Dentistry Award

Luke W. Staley

Quintessence Publishing Company Award for Clinical Achievement in Periodontics

Suzanne M. Stolarz-Sisk

Academy of General Dentistry and Indiana Chapter Award

Brian P. Tate

American Association of Endodontists Award

American Academy of Oral and Maxillofacial Radiology Award

Isabel Vahedi-Johnson

American Association of Public Health Dentistry Award

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

Dentsply International Merit Award

Tamara L. Watkins

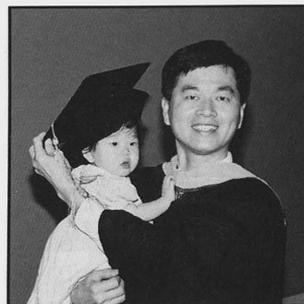
American Academy of Gold Foil Operators Award

Michelle L. Wittler

American Academy of Periodontology Award

American Association of Women Dentists Award

Quintessence Publishing Company Award for Clinical Achievement in Research



Dr. Ming-Tsuen Lin, a graduate of the prosthodontic program, holds the future of dentistry in his hands.



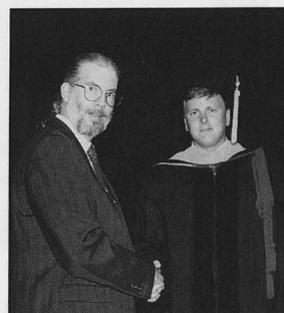
Julie Stante (left) and Lana Stoll with Dr. Donald Tharp



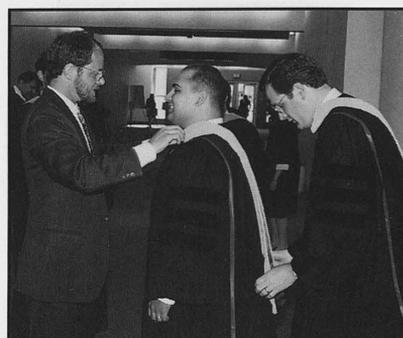
Dr. George Vail and Linda Regan



From left: Moira Nikirk, Lisa Mellberg, and Michele Heck



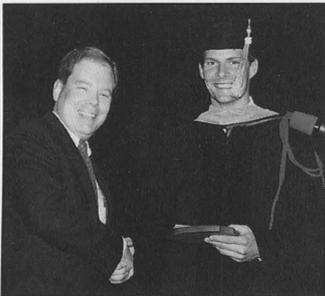
Dr. Edwin Parks and Brian Tate



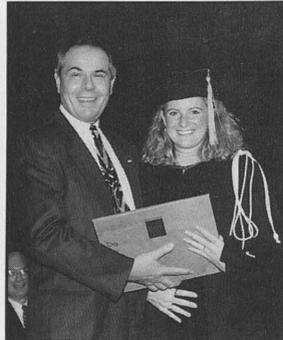
Gregory Klinker (left), Michael Perez, and Robert Brandhorst



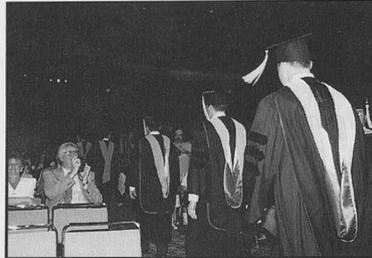
New Sigma Phi Alpha members, from left: Trinity Tungate, Michele Heck, Annette Roby McNew, Lynn Bates, and Lora Pope



Dr. Brian Sanders and Edward Sammons



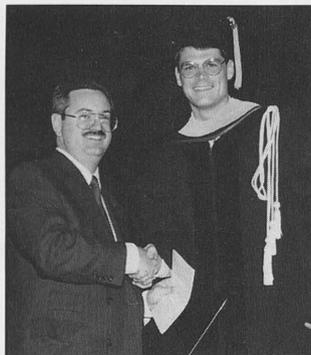
Dr. Charles Tomich and Kimberly Edwards



The end of the beginning



Dr. George Willis and Tamara Watkins



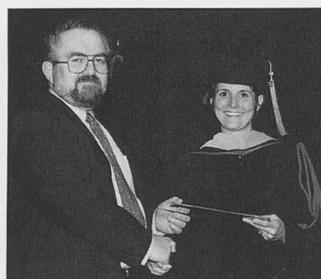
Dr. Gerald Lande and Timothy Frey



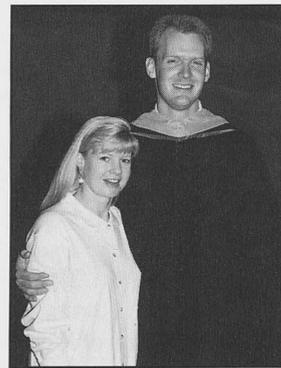
Prof. Pauline Spencer and Kristi Blaker



Prof. Pauline Spencer and Jessica Gibson



Dr. Jonathan Gray and Michelle Wittler



The Kooistras—Scott (DDS'95) and Janet (DDS'92)



Dr. Donald Tharp and Joseph Gregg



Prof. Evelyn Oldsen and Dee Anna Fratus

HONORS DAY AWARD PRESENTERS

M. JOHN BORKOWSKI, of Indianapolis

JAMES CARR, of Carmel, son of the late Dr. Jack Carr

ARDEN CHRISTEN, professor of preventive and community dentistry

DENNIS FORD, of Lawrenceburg, president-elect, Indiana Section, Academy of General Dentistry

H. WILLIAM GILMORE, dean of dentistry

JONATHAN GRAY, clinical assistant professor of periodontics

RICHARD GREGORY, associate professor of oral microbiology and of pathology and laboratory medicine

CHARLES HASSEL, of Bremen, president, Indiana Dental Association

KAREN HAYS-OGLE, of Muncie, president, Indianapolis General Dentistry Study Club

HALA HENDERSON, associate dean for academic affairs

WILLIAM HOHLT, associate professor of orthodontics

ROGER ISAACS, associate scientist, Oral Health Research Institute

JAN KEM, of Newark, New York, son of the late Dr. Charles Kem

GERALD LANDE, of Carmel, secretary-treasurer, Alpha Omega International Dental Fraternity

RAYMOND MADDOX, part-time assistant professor of preventive and community dentistry

B. KEITH MOORE, professor of dental materials

EVELYN OLDSSEN, director of dental hygiene

EDWIN PARKS, assistant professor of dental diagnostic sciences

PHILIP RAKE, assistant professor of prosthodontics

BRIAN SANDERS, assistant professor of pediatric dentistry

PAULINE SPENCER, director of dental assisting

DONALD THARP, associate dean for clinical affairs

CHARLES TOMICH, professor of oral pathology

GEORGE VAIL, of Fishers, representing the International College of Dentists

GEORGE WILLIS, chair, Department of Restorative Dentistry

MARK WOHLFORD, acting chair, Department of Oral Surgery, Medicine, and Pathology



Goodbye dental school, hello dental profession: Doris VanNatter (left), Amara Burki, and Isabel Vahedi-Johnson

Northern Exposure

(News from the Fort Wayne, Gary, and South Bend campuses)

Honors and Commencement Programs

Indiana University-Purdue University Fort Wayne

Dental Laboratory Technology Ceremony May 4

MARK RONDEAU
Highest Academic Achievement Award, sponsored by Sullivan Dental Products of Fort Wayne

ADAM McFALL
Best Individual Improvement in Dental Laboratory Performance, sponsored by J.F. Jelenko & Co.

KEVIN ORTHMAN
Ruth White Award, sponsored by the Alliance of the Isaac Knapp District Dental Society

Dental Assisting Ceremony May 7

CHERYL L. DUNNING
Outstanding Student Award for Clinical Excellence and High Standards

REGINA K. HENRY
Outstanding Student Award for Professional Attitude and High Standards

PATRICIA A. MUSIC
Indiana Dental Assistants' Association Scholarship

JULIA M. SEPRODI
Outstanding Academic Achievement Award

Dental Hygiene Ceremony April 25

MICHELLE M. ANDERSON
Procter & Gamble Co. and the Isaac Knapp Dental Hygiene Education Award, presented by Mary Cooper, associate professor and president, Isaac Knapp Dental Hygienists' Association

TONYA JO CLINE
Hu-Friedy Golden Scaler Award, presented by Elaine Foley, chair, dental hygiene

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

ANNA K. JASKIEWICZ
A. Rebekah Fisk Award, presented by Ingrid Churchill, president, Indiana Dental Hygienists' Association

STACI J. WALTERS
Gloria H. Huxoll Award, presented by Jacqueline Brian, associate professor

CINDY A. PARSONS and KATHLEEN L. SHIPBAUGH
Scholarships for 1st Year Students from the Isaac Knapp Dental Hygienists' Association, presented by Pamela Drake, chair, IDHA and IKDHA Scholarship Committees

Indiana University Northwest

Dental Education Ceremony May 13 Dental Assisting

WENDY MARES
Graduating with Distinction

Membership, Phi Epsilon Nu Honor Society, presented by Audra Peterson and Lynn Wilson, adjunct faculty members

Abraham J. Ochstein Award for Professionalism, presented by Lynne Wiley, adjunct faculty member

Juliette Southard Award for Outstanding Leadership, presented by Donna Krause, clinical assistant professor

REBECCA A. ADKINS
Peggy Burger Memorial Award, presented by Audra Peterson

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

SUZAN M. KELLNER
IUN Student Alumni Council's Student Club Award, presented by Autumn Jones and Kathleen Rayonec, Dental Education Club officers

Dental Hygiene

JULIE M. CARROLL
Graduating with Highest Distinction

Membership, Beta Tau Chapter, Sigma Phi Alpha Honor Society; presented by Chapter President Jane Forsberg

A. Rebekah Fisk Award, presented by Eileen Curosh, trustee, Northwest Indiana Dental Hygienists' Association

Procter & Gamble Co. Award for Outstanding Periodontal Treatment, presented by Procter & Gamble representative Cherie Rippey

RENAE DEWEY
Graduating with High Distinction

Membership, Beta Tau Chapter, Sigma Phi Alpha Honor Society; presented by Jane Forsberg

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

JANET LYNN GARCIA
Graduating with Distinction

CARIE MARIE BIRKY
Clinical Faculty Professionalism Award, presented by Dr. Guy Janssen, adjunct faculty member

Northwest Indiana Dental Hygienists' Association Oral Health Education Award, presented by Donna Krause, president

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

JODIE L. NEMETH
Hu-Friedy Golden Scaler Award, presented by Juanita Robinson, clinical assistant professor

TRICIA JO TURNER
IUN Student Alumni Council's Student Club Award, presented by Autumn Jones and Kathleen Rayonec

LEASA N. CUMMINS (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, assistant dean of Allied Health Sciences at Indiana University Northwest.

Indiana University South Bend

Dental Hygiene Ceremony May 5

Awards presented by Dr. Shant Markarian, director of dental education

CAROL LYNN BOMBAGETTI
Graduating with Distinction

Excellence in Dental Hygiene Award, given by IU South Bend

THERESA ANN KULIK
Graduating with Distinction

KIM S. BEISTLE
Dr. Charles E. Hassel Community Service Award, given by the North Central Dental Society

JENNIFER J. BENTLEY
A. Rebekah Fisk Award, given by the Indiana Dental Hygienists' Association

JULIA HUPP
Procter & Gamble Co. Preventive Dentistry Award

APRIL LEE PARRETT
Dorothy Fromm Preventive Dentistry Award, given by Dr. Albert Fromm in memory of his wife. Dr. Fromm was the first director of the IUSD program, and is now retired.

Dental Assisting Ceremony June 15

LINDA ANN GROVE
Student Award, presented by Barbara Pasionek, assistant professor and program director, Dental Assisting

KATHLEEN LYNN MARTENS
Ralph G. Schimmele Award (co-recipient), presented by Debra Pontecorvo, instructor in dental assisting

News of Note Around the State

From the South Bend campus we hear that **Penny Pletcher** won a scholarship from the Indiana Dental Hygienists' Association (IDHA). Penny, who is from Bristol, was a first-year student during the 1994-95 school year. The IDHA presents only one scholarship statewide each year; this is the second consecutive year that a student from the IU South Bend campus has won.

The collective efforts of three students from the IUPUI campus have garnered a "Best in State" award. New dental hygiene graduates **Deanna Phillips**, **Trinh Vu**, and **Michele Hendrickson** earned First Place in the state table clinic competition held by the IDHA in Indianapolis last May. Their prize-winning project was titled "A Microbial Approach to Infectious Contaminants in a Dental Operatory."

On the Fort Wayne home front, several members of the dental assisting class fared extremely well in the May competitions held in Indianapolis during the Indiana Dental Assistants' Association (IDAA) annual session. Three students were nominated by their classmates to compete in the IDAA professional paper category. One of them, **Misty Link**, won the competition with a presentation titled "Through a Child's Eyes." Runner-up was Misty's classmate, **Michael Reed**, who presented "Latex Gloves: A Closer Look at Latex Sensitivity." The Fort Wayne class was well represented in the table clinic competition with three clinics in the running. One of the groups snared the runner-up prize with a clinic titled "Dental Jeopardy." The students who assembled it were **Cheryl Dunning**, **Regina Henry**, **Deb Meyer**, **Michael Reed**, **Julia Seprodi**, and **Debra Wyatt**.

By the way, we extend a special congratulations to **Michael Reed**, who has the distinction of being the first man to graduate from the Fort Wayne campus' dental assisting program.

Serving as delegates to the IDAA annual session were Fort Wayne faculty members **Jami Beard**, clinical assistant professor and chair of the dental assisting program; and **Connie Kracher**, a visiting assistant professor. They represented the Isaac Knapp Dental Assistants' Society (IKDAS). Professor Beard chairs the IDAA Resolutions/Policy Committee and is a member of the International Dental Assistants Committee of the American Dental Assistants' Association. Professor Kracher is president of the IKDAS and second vice president of the IDAA.

—Submitted by

Jami Beard, chair, Dental Assisting (Fort Wayne)
Charles Champion, chair, Dental Laboratory Technology (Fort Wayne)
Elaine Foley, chair, Dental Hygiene (Fort Wayne)
Kathleen Hinshaw, director, Dental Hygiene and Dental Assisting (Gary)
Shant Markarian, director, Dental Education (South Bend)
Barbara Pasionek, assistant director, Dental Assisting (South Bend)
Mary Leesa Rehmel, clinical lecturer in dental hygiene (Indianapolis)
Nanci Yokom, assistant director, Dental Hygiene (South Bend)

REBECCA SUE REED
Clinical Award, presented by Debra Pontecorvo

RENEE' SIPE
Instructor Award, presented by Professor Pasionek

Ralph G. Schimmele Award (co-recipient), presented by Debra Pontecorvo

Charge to the Dental Assisting Class was given by **Barbara MacMillan**, IUSB instructor in dental assisting and dental hygiene.

The Dental School Says Goodbye to Prof. Carla Totten

An outstanding career at the Indiana University School of Dentistry spanning nearly 34 years came to a close in May 1995, when Carla J. Totten, assistant professor of dental hygiene, announced her retirement.

Friends, family, students, and associates of Prof. Totten gathered at the school on May 10 to bid farewell to this talented and popular teacher.

A 1955 graduate of IU's associate's degree program in dental hygiene, Carla began her career in private practice, working in the office of Dr. Ernest Mishler, in Greenwood, for six years. Carla and her sister, Nancy Blackburn (ASDH'59), were the first two sisters to graduate from IU's dental hygiene program.

Carla accepted a position as an IU instructor in 1961, rising to the position of clinical supervisor in 1967, the same year she acquired an IU bachelor's degree in public health dental hygiene awarded by the School of Medicine. Carla was promoted to her current professorial rank in 1972.

An energetic and dynamic presence as a clinical teacher of dental hygiene, Prof. Totten also was responsible for a didactic course in oral anatomy and the course that provided a general overview of dentistry to first-year dental hygiene students.

Long recognized by her peers for her professionalism and standards of excellence, Prof. Totten was the IU School of Dentistry Alumni Association's Dental Hygiene Alumna of the Year in 1979. In 1986 she received



Photos by Mike Halloran and Douglas Bartlow



Familiar Faces from Days Gone By. Prof. Totten's retirement party brought several good friends back to the school, including (photo above) Don Nesler (DDS'60), Indianapolis, an IU periodontics instructor in the 1960s, posing here with Prof. Totten (right) and Marjorie Swartz, IU professor emerita of dental materials. In the photo at left Prof. Totten greets well-wisher Richard Norman (DDS'58, MSD'64), a former IU faculty member in dental materials who went on to a distinguished career on the faculty of Southern Illinois University, Alton. Dr. Norman is now retired.

the group's Certificate of Appreciation for five years of service as secretary-treasurer on the board of directors. In 1982 Prof. Totten was recognized by the Indiana Dental Hygienists' Association for having the longest continuous membership in the organization.

Prof. Totten was inducted into Theta Chapter of the Sigma Phi Alpha Dental Hygiene honor society in the 1960s, and she served in the prestigious position of president of the Supreme (national) Chapter in 1978.



Could That Be Bea? The restaurant that served "plain food at low prices" vanished from the IUPUI campus 21 years ago, but a close bond endures between Bea Gordon, the legendary operator of the College Inn, and Bea's many friends at the dental school. For more than 40 years Bea ran the College Inn, an extraordinarily popular campus "hangout" conveniently located just a few steps east of the dental school. Returning for Prof. Totten's retirement reception, Bea chats here with Dr. Rolando DeCastro, professor emeritus of oral anatomy.



A Frey-Day Morning in Fort Wayne

After a hectic May that placed Jim in the spotlight as the top leader in Indiana's dental profession and Tim in the spotlight as the top graduate of Indiana's dental school, the Freys take some time out to reflect on their success from the comforts of home court.

Photos by Mike Halloran
Story by Susan Crum

While one digs, the other packs.

Jim is digging himself out from under the stacks, heaps, and mounds of papers that accumulated in his study during the years he spent in the top offices of the Indiana Dental Association (IDA). Tim is packing suitcases in preparation for a four-year stint in a residency in Ohio.

They are the Doctors Frey, father and son, and events in the past months have swept them into a whirlpool of endings and beginnings.

On May 8, James D. Frey (DDS'62) completed a frenetically paced year as president of the IDA. On May 14, Timothy J.

Frey (DDS'95) graduated from Indiana University's dental school, earning the highest grade point average in his class.

Both gentlemen deserve to look forward to a summer resting in their chaise longues, and on their laurels. But anyone acquainted with Jim and Tim knows that this is not the Freys' style.

After passing the IDA gavel to his successor, Chuck Hassel (DDS'67), of Bremen, Jim, who maintains a busy Fort Wayne family practice, lost no time in reactivating private and professional routines in his life that had been curtailed (or put on hold altogether) since 1992.

Three weeks after graduating

Tim sat for the Indiana state board examination, which left him with but a fortnight to spare before reporting to The Ohio State University in Columbus, where he is to begin an oral and maxillofacial surgery residency.

Speaking with Tim in Indianapolis three days after he acquired the title of doctor, and with Jim at the family's Fort Wayne home two weeks after he relinquished the title of president, we found two individuals whose personal ideas for success clearly are molded from the same familial clay. Working hard toward well-defined goals, striving for (if not always obtaining) perfection, being accountable for one's own actions, and concentrating on tomorrow's objectives instead of yesterday's accomplishments are themes that run deep through both men's philosophies.

No one would blame Jim Frey if he patted himself on the back for attaining Indiana's highest office in organized dentistry, or for raising a son who took home more scholastic dental awards

TEAMWORK ON CENTER COURT. *Jim and Judy Frey unwinding at home in their driveway with son Timothy, a recent dental school graduate. Tim, who stands 6 feet 5 inches, snared All Conference, All Area honors and an honorable mention in the All State category during his high school basketball career at Homestead High in Fort Wayne. "He grew 6 inches between his freshman and sophomore years," says his father. Tim played basketball at DePauw University and was a team starter in his sophomore year. He also belonged to an impressive dental school team composed of former high school and college players; they won 39 of 40 games and brought home to IU the American Student Dental Association trophy.*

this past spring than most of us will garner in a lifetime. But when given this opportunity, Jim praises neither himself nor his son. Instead, he glances away and speaks movingly of a man and woman from Williamsport, Pa., a small town in the Pocono Mountains.

"My parents worked very hard to provide for their three children," he says of Don and Barbara Frey, both now deceased. "Any wisdom I have acquired or passed on to my children came from these two people. Neither had a college degree, although my mother went to Penn State for two years. My father worked for the U.S. Rubber Company. He also was a self-made businessman. They made a lot of plans and a lot of sacrifices for us. And they raised us to be well-disciplined and to have high goals."

The Freys moved to Fort Wayne when Jim was still a boy. Three blocks from their new home stood the neighborhood practice of Dr. Wilbur P. McNulty, the 1951-52 IDA president who took Jim under his wing and helped steer him in the direction of dentistry. In the 1950s Jim was enrolled in some of the dentifrice studies IU faculty member Dr. Joseph

"Each of us has an obligation to try to make things better outside the realm of our own individual offices."

Muhler, now an emeritus professor, was conducting in Bloomington. "Yes, I was a 'Crest kid,'" Jim says, referring to the nickname given to Hoosier children who participated in IU's pioneering research that led to the marketing of the first stannous fluoride toothpaste.

After earning an IU bachelor's degree in Bloomington in 1959 Jim entered dental school. There, the perfectionist in him did constant battle with the young guy who was trying hard to learn the rudiments of a challenging profession. "The first two years were tough," he recalls. "I was constantly disappointed in my first attempts to fabricate appliances in the lab. They never turned out like I thought they should. That, of course, was part of the learning process. But it was difficult and frustrating."

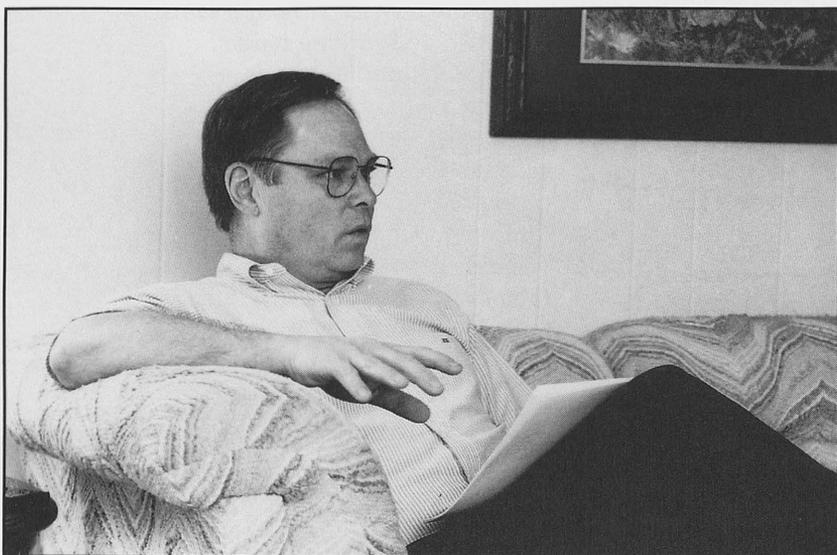
Jim's feelings about dental school improved when two years

into the program he married IU student Judy J. Hicks, of Fort Wayne. "Marrying Judy helped me focus on the responsibilities of having a family, which gave me a better perspective on what I wanted to do with my life."

It was still a bit early for it to dawn on him that one of the things he wanted to do with his life was strive for the Indiana Dental Association's top post. Graduating in 1962, Jim says with a laugh that the presidency was "absolutely the furthest thing from my mind then. I was overwhelmed with getting my practice started and learning the *business* of dentistry."

However, he was more savvy to organized dentistry than the typical new dentist, given his relationship with Dr. McNulty. Only seven years after earning his dental degree Jim was working his way through the elected offices of one of Indiana's largest dental organizations, the Isaac Knapp District Dental Society. He served as Isaac Knapp's president in 1973, and has taken leadership roles in Hoosier dentistry ever since.

But as acclimated as Jim became to serving the dental profession throughout the '70s and '80s, nothing quite prepared him for the extraordinary experience of presiding over the 2,500-member IDA, which is about 10 times larger than the Isaac Knapp group. At the state level Jim visited each of the 14 component societies and participated in many meetings and sessions of the IDA's 12 councils and six committees. He listened intently to a variety of voices speaking on diverse issues representing the concerns of groups ranging in size from 27 members (Greene District) to more than 700 (Indianapolis District). "I knew the commitment would be tremendous," he says—and it was.



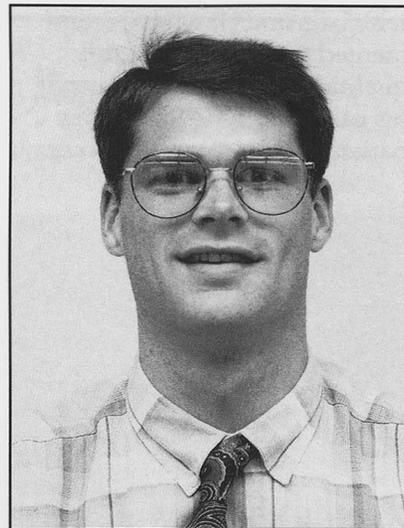
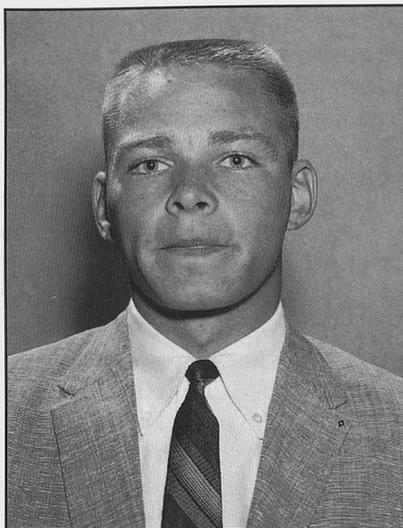
Jim Frey

He prepared for the job by limiting his field of other responsibilities to only his family and practice. He informed his church committees as well as the civic organizations and social groups he was involved with that he would be tied up for three years. "I could see it was going to be a job that a single person couldn't do well," Jim says. "I had to depend on support from my family and ask for a special commitment from my office staff to put up with odd schedules and down time." His family and employees offered abundant support. "And, looking back at those years now, I can't praise highly enough the IDA staff members for their assistance and encouragement along the way."

The 1994-95 presidential year took a toll of 132 "IDA business" days that would otherwise have been devoted to his private practice or family, says Jim. "I also spent about two hours most evenings reading, writing, or talking on the phone about dentistry. I worked hard to acquire an extensive knowledge of the many issues and challenges facing the profession."

Jim's long-term support of the dental school's activities, including his involvement with the IUSD Development Committee, and the timeliness of his son being a current IUSD student helped Jim decide he'd like to expend part of his IDA energies building a stronger bridge between the School of Dentistry and the Association.

"When I was a dental student we had little exposure to organized dentistry," he says. Consumed by school requirements, students of every generation have found it easy to relegate to a back burner anything not strictly related to the day-to-day push to make it through school. Having once been there himself, Jim understands their frame of



Jim (left) and Tim in IUSD class roster photos 33 years apart.

mind; but he's doing what he can to make sure that organized dentistry's back burner not only stays lit but glows brightly in the mind of every dental student. He has visited the school and addressed the dental classes himself in the hope that by graduation each new dentist will have learned to regard organized dentistry as an essential part of his or her professional life.

And by essential he doesn't mean paying your dues on time and showing up for the annual session. He'd like to see legions of well-informed, inspired dentists jumping into the IDA action with both feet. Belonging to committees and councils is not important—*actively participating* on them is. "Representation isn't enough," says Jim emphatically. "If you don't join in the discussions and help formulate positions on key issues, then you have no ideas to take back to your component society, where it's critical for these dialogues to continue. Each of us has an obligation to try to make things better outside the realm of our own individual offices."

Among a host of other activities taking place under the banner of Jim's year-long theme of *Unity in Dentistry*, the IDA conducted a successful

grassroots campaign to get its message, "Dentistry: Health Care that Works," into the ears of state and federal legislators. Also, a bold new document representing the IDA's first Strategic Plan was developed to carry the Hoosier organization into the 21st century.

It was an exhausting and exhilarating year, both physically and mentally, and we can tell by the look in Jim's eyes that, while honored to have served, he was more than ready to hand off the leader's baton.

Wrapping up the IDA presidency was one of two highly emotional events playing out in the Frey household in May. Jim's and Judy's son, Tim, the youngest of three children and the first to take up a career in dentistry, earned his Doctor of Dental Surgery degree and a cluster of honors during ceremonies on Mother's Day in downtown Indianapolis.

Having visited the dental school frequently in the past years, Jim had followed Tim's academic progress and knew he was doing well. "The greatest pride for me did not stem from the awards Tim received that day," says the father. "I was very proud that some of Tim's faculty

members and classmates commented to me about his fine qualities as an individual, and his caring attitude toward his patients. This is valuable recogni-



Tim and his mom, Judy Frey, 'take five' at the dental school's annual Donors Recognition Celebration last spring.

tion because it comes from his peers. The awards are fine, but recognizing the character of an individual is so much more important."

At least one other person agrees with Jim, and that's Tim himself, who tries to duck the subject altogether when he is asked about Honors Day. "It's great to be recognized, but that stuff doesn't really matter," he says with more maturity than we expected. His intensity and non-nonsense demeanor are not unlike his dad's. "One of my favorite quotes is 'If you're happy with what you accomplished yesterday, you've done nothing today.' Honors Day was great but it's past, and it's not going to help me when I start the surgery program. When I arrive at Ohio State, they won't know me or what I've done. I'll be back at the bottom."

Tim prefers to wax nostalgic about his days as a "rebellious" youngster and fesses up to having whiled away many a

happy hour doing the exact opposite of what his father requested of him—or pretending that he wasn't listening to his dad at all.

Tim did not cotton to his father's profession right away. "I was probably Dad's worst patient ever," confides Tim with a laugh. At one of the boy's first dental appointments, when he needed a filling, Tim decided at the last moment to decline the services. He bolted from the treatment room and out the front door before Dr. Frey had time to say 'Open wide.'

"I ran down the sidewalk, and Dad gave chase. While a reception room full of people were asking 'Who's the brat?' Dad was dragging me back to the office, telling me I was going to scare away all his other patients."

Dad is slightly less amused by this 20-year-old memory. "We had a discussion after that appointment," Jim recalls dryly, "and finally arrived at an understanding of what his responsibilities were as the dental patient,

"I was probably Dad's worst patient ever," confides Tim with a laugh. At one of the boy's first dental appointments, when he needed a filling, Tim decided at the last moment to decline the services. He bolted from the treatment room and out the front door before Dr. Frey had time to say 'Open wide.'

and what mine were as the dentist."

Growing up to become a basketball star at Fort Wayne's Homestead High School, Tim was not intrigued by dentistry in high school, either. He entered DePauw University with a freshman's dreams of a career in sportscasting ("I wanted to be the next Dick Vitale"). Realizing the slim chance of breaking into

sports announcing's national arena, Tim decided as a sophomore that he'd become a teacher and a coach. He changed his major from communications to math.

In his junior year, required to do a month-long internship off campus, Tim followed up on his dad's suggestion to use the internship to observe a variety of dental specialists. "Until then, I hadn't even realized there *were* dental specialties," he says. "I thought dentistry was only about fillings."

He spent the month absorbed in the interesting routines of a periodontist, an orthodontist, an endodontist, and an oral surgeon. One day, dressing in scrubs to follow the surgeon on hospital rotations, Tim knew instantly his interest in that specialty was more than casual. To his own surprise, he realized he was on the verge of choosing a career in dentistry after all.

And he was thoroughly hooked as soon as he treated his first oral surgery patient in

dental school. As it happened, his teacher that day was Fort Wayne surgeon Mike Stroncsek (DDS'88). "Dr. Stroncsek had just completed his surgery residency at Ohio State," says Tim. "He encouraged me to do my dental school externship there, which I did last summer. Whenever I went home to Fort Wayne, he'd take me along to the hospital and let me watch him do surgeries.

continued on page 36

In Praise of a Partner, In Praise of a Mom

She is a familiar and welcome presence at just about any Hoosier dental function you can name. Outgoing, engaging, and gracious, Judy Frey moves effortlessly through throngs of dental professionals, whether they have gathered for the IDA annual session, the Alumni Association's fall conference, or the School of Dentistry's annual salute to gift-givers. She seems to recognize and to greet everyone. As detail-oriented as her husband, she expresses many good ideas of her own. She is well-disposed to life in the public eye.

Judy Frey is also deeply loved and appreciated by the two alumni who are profiled on these pages.

"No IDA president could have had a more loyal supporter than I have had in my wife, Judy," Jim tells his colleagues at the close of his presentation to the House of Delegates during the IDA's 137th annual session. "She provided me with the encouragement I so very much needed by restoring my energy and optimism as I faced the seemingly insurmountable variety of tasks encountered this year."

Married for 35 years, Jim and Judy have raised three successful children, maintained a strong profile in their community, and enjoyed the benefits and challenges of dentistry together. "Judy is astute, and she has excellent observational skills," says Jim. "She has been a major contributor to my success in organized dentistry. She's been very comfortable in that arena."

If Judy has a greater fan than Jim, it must be Tim.

"I can't put into words just what it is that Mom has done for me, because it's everything," says the Freys' youngest son, who was sometimes grateful just to hear her voice on the other end of a telephone wire. "In my second year of dental school I'd call home and ask her, 'Why am I putting myself through this?' She was always there for me with a reassuring answer, a comforting message from home to 'hang in there.' In the first years of dental school when I was so busy I barely had time to eat, Mom came down to Indianapolis on several occasions to stock groceries or to clean my apartment. She did everything she could think of to help me get through school.

"Mom helped Dad when he was a student too," Tim continues. "She left IU after two years of study and worked to put him through dental school. Once during these past couple of years, when Dad was so overwhelmed with responsibilities to the IDA, I asked Mom why he was doing it to himself. 'He loses days in his practice, he's gone from home a lot, he's sick of driving all the miles,' I reminded her. Mom's response was, 'He's doing it because he believes that he owes dentistry something since dentistry has given something important to him.' I feel very fortunate to be part of this closely knit family. My mother and father give me all the support in the world. Who knows what I'd be doing today without them?"



The Freys' basketball frolic catches the attention of Tim's English Springer Spaniel, Rebound, who seems to be hoping for an invitation to join the fun.

He's given me a lot of direction. Everything about the field interests me, even the extracting of third molars. But I'm especially amazed to see how the oral surgeon plays a role in the transformation of patients with facial trauma. Treating someone who has been hurt in an automobile accident, for instance, presents a great challenge, and the results are very gratifying."

After applying to 15 residencies, mostly in the Midwest, and interviewing for 12, Tim decided that he still liked Ohio State the best.

Jim was excited to have one of his offspring choose a career path in dentistry. Son David, a 1985 Phi Beta Kappa graduate of IU, works in Indianapolis as a senior representative with a major U.S. pharmaceutical company covering the Indiana University Medical Center. Daughter Catherine, a 1983 IU grad with a master's degree in sports management and administration from the University of Massachusetts, is vice president with a Fort Wayne company that specializes in sport, leisure, and entertainment insurance.

"If you're happy with what you accomplished yesterday, you've done nothing today."

Jim greeted the news of Tim's intent to specialize, however, with pride—and disappointment.

"My first reaction was 'Well, there go my retirement plans,' Jim admits with a laugh. "I had anticipated his coming into the practice with me and my partner, Tom Teel (DDS'88)."

However, Jim believes staunchly in parents exposing children to as many opportunities as possible and then letting

them choose what's best for themselves. He feels confident that this is precisely what Tim has done. Not one to dwell on "what might have beens," Jim ponders instead what the future might hold in terms of collaborative ventures for him and his son, such as treatment of implant patients.

Tim himself is relieved to be done with the grueling grind of dental school—a period in his life when he couldn't believe he was "getting three hours of sleep at night and actually paying to do it"—and he's eager to launch the next four-year phase of his education.

Asked to recall the best advice his father ever gave him, Tim easily summons from his memory a wealth of sound guidance—a good indication that he was listening to his father all along. "I liked to hide it from him just to make him mad, but the fact is I was listening to everything my Dad said. I stored every word."

The father packed his youngest off to college with this bit of wisdom: 'You're going to find that you never have enough time to do something right, but you'll always find time to do it over again.' Tim took the counsel to heart and has striven to take those extra steps to accomplish a task as well as it can be done, whether he's shooting baskets or anesthetizing a patient.

He sees his father as someone who follows this advice himself in his approach to being a dentist. Tim holds his father up as an example of one of the best. "I'd always heard that Dad was an excellent dentist, but I never knew exactly what that meant since everybody gets the same

training and learns the same techniques in school," he says. "But, watching Dad in his practice lately, I see a down-to-earth person who really knows how to relate to others. He



A No-Bull Organization. Jim displays a gift he received as outgoing president of the IDA.

explains dentistry to his patients in terms they can understand and shows them treatment options using models and radiographs. He tells them what they need, describes all of the alternatives, and lets them share in the decision. He also has a relationship with his patients outside of the office—he is very much involved in their community."

Tim seems already to have grasped some of life's most important lessons. "The only reason I'm where I am today is because of my family," he says quietly. "My father and mother are my best friends."

Both Jim and Tim deflect praise far more gracefully than they accept it. It is a fascinating family trait, and one that we suspect has some of its strongest roots deep in the Pocono Mountains. ■

Connections

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Monday through Friday from
8 a.m. until 5 p.m.

School fax: (317) 274-2419

For department telephone
numbers not listed here, dial
(317) 274-7957 for assistance.
Most dental school telephones
are equipped with voice-mail
systems. If you reach a
recorded message, please
leave your full name, a brief
message, and your telephone
number so that your call can
be returned promptly.

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e-mail: students@iusd.iupui.edu

Clinical Affairs:

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Alumni Bulletin:

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e-mail: bulletin@iusd.iupui.edu

Clinical Research Facility:

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e-mail: clinres@iusd.iupui.edu

Continuing Education:

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e-mail: imaging@iusd.iupui.edu

Oral Health Research Institute:

phone: (317) 274-8822
e-mail: institut@iusd.iupui.edu

Oral Pathology Group (biopsy services):

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Sterilization Monitoring Service:

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