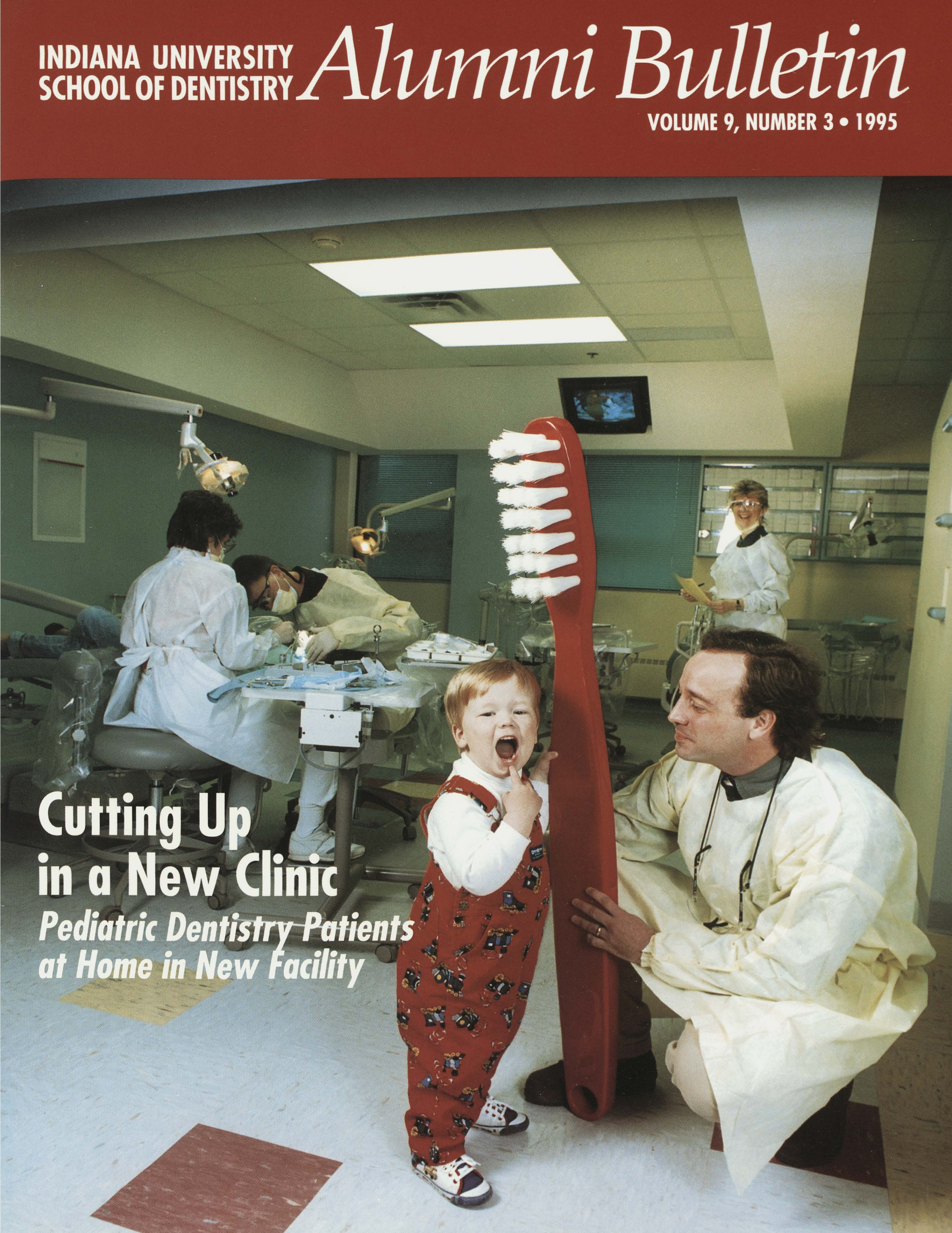


INDIANA UNIVERSITY  
SCHOOL OF DENTISTRY

# Alumni Bulletin

VOLUME 9, NUMBER 3 • 1995



**Cutting Up  
in a New Clinic**  
*Pediatric Dentistry Patients  
at Home in New Facility*



**INDIANA UNIVERSITY  
SCHOOL OF DENTISTRY  
ALUMNI BULLETIN  
VOL. 9, NO. 3, 1995**

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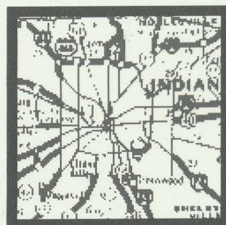
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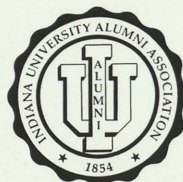
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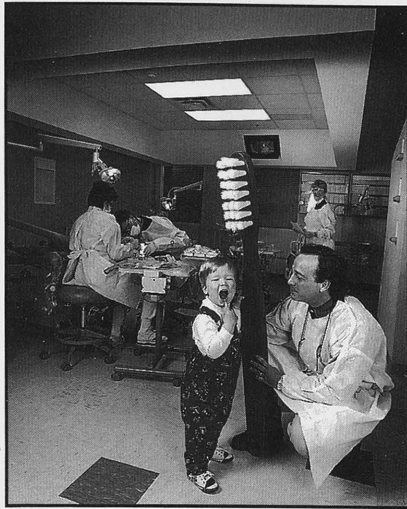
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Doug Bartlow

**Clowning in the clinic.** *Three-year-old John Gregg cutting up with his uncle, dental student Joedy Gregg. In the background are pediatric dentistry employees Deborah Bommarito (standing) and Patty Moore, who is assisting dental student Benjamin Yoder.*

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.

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It's hard to determine just what it was 3-year-old John Blackwood Gregg found most hilarious during his visit to the IU School of Dentistry—the ridiculously large ruby-red toothbrush, the silly people hovering around a camera, or Uncle Joedy dressed in a yellow paper bag.

Whatever the reason, John was all smiles and giggles as he made himself at home in the dental school's new pediatric dentistry clinic, the second clinic to open in the Department of Oral Facial Development in the past few months.

At the end of March John and his 18-month-old brother, Hunter, arrived at the school to keep dental appointments with their uncle, fourth-year dental student Joedy Gregg. The boys are the sons of John and Sherry Gregg, of Sandborn, Ind.

The new children's clinic cheerfully welcomes its patients with the snappy sound of a cartoon story unfolding on five television monitors in a room that is awash in hues of teal, mauve, and sunflower. There are 11 dental units in the main clinic and one in a quiet room, where parents or students can watch dental appointments through an oversized, one-way mirror. Another room is set up for radiographs, and several workstations are conveniently tucked into recessed areas throughout the clinic.

Three offices open onto the right side of the clinic, and a new 50-chair continuing education center lies to the left.

Special touches abound. An east wall gracefully arches into the clinic, and glass bricks inset into a dividing wall coax natural lighting into the room from a bank of westside windows. A handpainted border design near the ceiling is repeated in the cloth coverings of furniture in the consultation/recovery room.

But the clinic is much more than easy on the eyes. A great deal of thought went into planning a workplace that would help students and employees make the most efficient use of their time, says Elizabeth Hatcher, clinic manager in oral facial development. "By managing time and space well, an environment is created where more patients can be seen," she explains. For example, a strategically placed "pass through" wall on the edge of the clinic contains ready-made tray setups for all types of appointments. "We've eliminated the need for long and multiple trips away from the dental chairs," says Mrs. Hatcher. ■



## From the Dean

### A Celebration of Knowledge: Indiana University School of Dentistry's Period of Enlightenment focuses on the rewards and responsibilities of life-long learning

Important didactic, clinical, and laboratory lessons are passed along each day at the IU School of Dentistry. But the most valuable lesson we impart can't be projected onto a lecture hall screen, reflected in a mouth mirror, brought to light under a microscope, or generated on a computer.

The lesson isn't simple to teach, yet it is governed by a simple precept: the well-educated person is a perpetual learner. When our students convene for graduation ceremonies each May, they must do so with the conviction that they have arrived not at the end of their dental education but at the threshold of a life-long pursuit of knowledge in their profession.

It is incumbent on the faculty to instill in the minds of our students that a commitment to their patients, and to the communities in which they will serve, will be deeply rooted not only in the knowledge and skills acquired at the school but also in the knowledge they must vigorously continue to seek as practitioners. It is not a commitment to be taken lightly, given the explosion of new information and technology in the healthcare industry in recent years.

The school must set the pace by offering students a curriculum that is a confluence of teaching, research, and patient care at its most inspiring. And that effort must be complemented by a continuing educa-

tion program of equal quality, stimulation, and variety for you—our alumni—and other professionals who rely upon the school as a primary source of educational opportunities.

The theme of Enlightenment we believe to be well suited for the task of magnifying public awareness of excellence in Hoosier dentistry—excellence that is manifest in the state's dental educational programs as well as in the community activities of its dental alumni.

The underpinnings of outstanding healthcare in any city or state are the local practitioners who have been trained at institutions that value the scientific process and insist upon exceptional teaching from their faculty. Through the tenets set for in the IU School of Dentistry's mission statement, we continue to strive to be among the leading institutions in this regard.

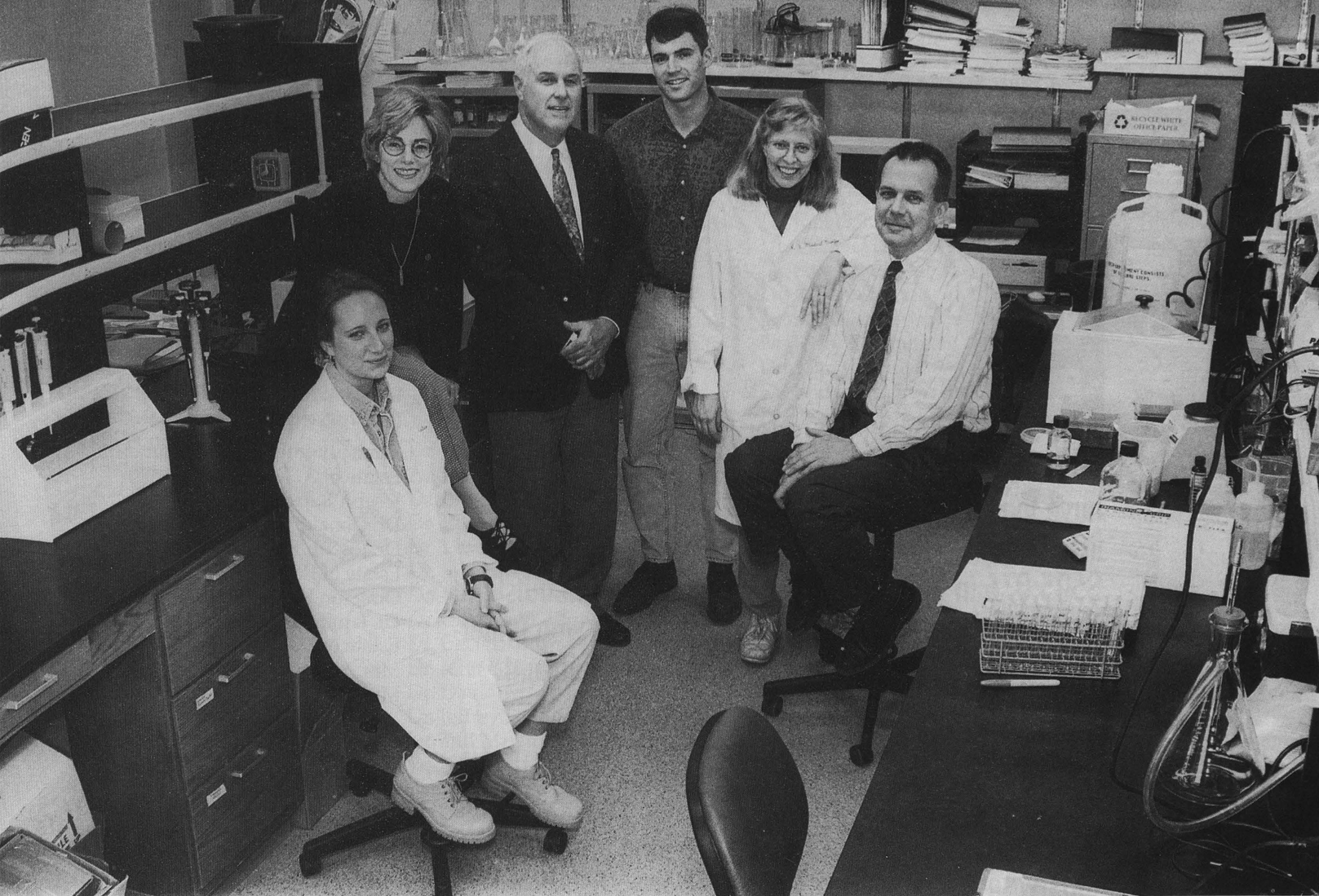
The Enlightenment activities, which we hope will include publicity in a variety of media formats across the state, will serve to heighten public awareness of oral healthcare and its significance to general health. We will also attempt to illuminate the role of the school and the IU academic health center in the practice of dentistry statewide. We are proud of our graduates, and would like for patients to know that if they are being treated by an IU grad, they have access to an extraordinary healthcare professional.

Good evidence is afoot these days to indicate that our strong network of knowledge in dentistry, which includes input from our associates at the Indiana Dental Association and the Indiana State Department of Health among other leaders of the profession, has reached a crucially important audience: the citizens of our state. In his recently published clinical survey of more than 2,400 Indiana school children (see report on page 12), Dr. Mark Mallatt, a part-time IU faculty member and full-time dentist with the department of health, found that parents with higher levels of education have children with fewer dental problems.

An enlightened parent will make preventive-oriented healthcare choices that are in the best interest of the child, such as the application of dental sealants. The IUSD faculty is a chief resource in the state to educate patients about the value of and need for oral health services. The concept of "a healthy mouth = a healthy body" within time will translate into demands for more comprehensive dental care by well-informed consumers.

We at Indiana plan to satisfy these demands by designing a curriculum to reflect the plethora of new information that is redefining dentistry's mission and, in fact, facilitating a rebirth of the profession. Today's dentist must be able to maintain the oral health of infants, centenarians, and everyone in between. To do so competently, we must be willing to look beyond the range of care that has been offered in the past. It is up to the dental school to light the pathway for dentistry as it will be practiced in the 21st century.





The dental faculty's challenge has never been greater. Their task is three-fold: to create new knowledge that will expand the scope of patient treatment, to absorb and interpret the barrage of new information coming to them from researchers around the world, and to apply everything they learn in ways that are meaningful to students, colleagues, alumni, and the public. I believe they are prepared to meet this challenge.

The school's educational program is transforming into an aggregate of teaching and research efforts heralding the latest developments and innovations in dentistry. With 16 research facilities now in place, including an oral and maxillofacial imaging facility and a series of molecular biology laboratories, we are in a good position to

**Research Team Set to Go.** With renovations to the dental school's second floor finally complete, Dean Gilmore (third from left) tours one of the newly established laboratories in the Department of Oral Biology. Joining him are five oral biology teachers and researchers who have been appointed in the past year. From left: Daphne Farrington, research technician; Dr. Marilyn Lantz, department chair; John Lawry, research technician; Dr. Genevieve Barkocy-Gallagher, assistant scientist; and Dr. Lech Switalski, associate professor.

explore dental science and practice from a dynamic, multidisciplinary perspective.

Clearly, there is much to look forward to on our horizon—and on yours. It is important to us that we share these new experiences with you as we avail the profession in this exciting period of rebirth.

*H. William Gilmore*



# School of Dentistry Development

## *Giving 1994*

**F**or the first time in the history of Indiana University School of Dentistry, annual contributions to the school have topped the half-million dollar mark. The donors listed on the following pages contributed a total of \$505,076 in 1994. These donors represent an outstanding, committed group of alumni and friends who understand that our school will only excel with significant private support.

Financial contributions, made to the school through the Indiana University Foundation, provide our faculty, staff, and students with important tools to fund programs that otherwise would not be available.

We are grateful to those who have given of their resources to help us provide our students with the finest dental education available anywhere.

*Barry Smith*  
*Director of Development*

*Talent*  
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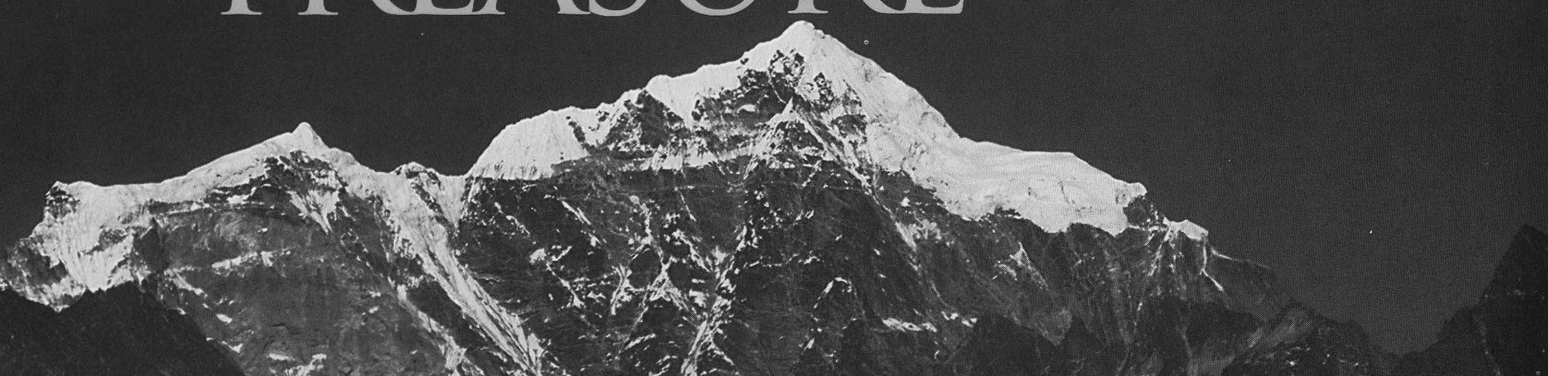
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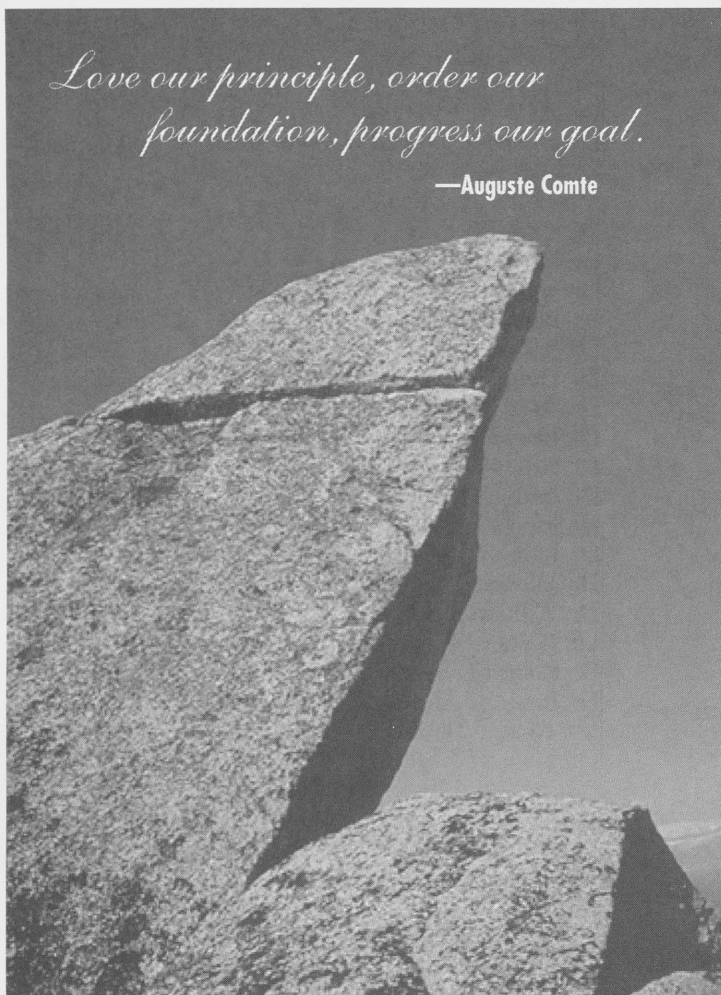
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*Love our principle, order our  
foundation, progress our goal.*

—Auguste Comte





## O'Leary Endowment Surpasses Goal

**T**he inscription on the handsome wall clock refers to a "distinguished teacher and master clinician." That was how about 80 of Dr. Timothy O'Leary's former graduate students—representing periodontic teachers and practitioners in many parts of the world—chose to describe IU's longtime chair of periodontics when they presented the clock to him at the American Academy of Periodontology's annual meeting in Denver, Colo., in 1987.

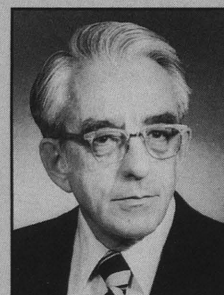
Graduates of Dr. O'Leary's program have shown their appreciation of this extraordinary teacher in more ways than one. About a year before Dr. O'Leary's death in August of 1991, a group led by Dr. Dennis Nishimine (MSD'78), Fresno, Calif., and composed primarily of periodontic alumni, created the **Dr. Timothy J. O'Leary Graduate Periodontal Endowment** fund. The goal was to raise \$100,000 to provide ongoing support for graduate research in periodontics.

We are pleased to announce that the fund has now exceeded its original goal of \$100,000, thanks to alumni and other friends of the periodontic program.

Dr. O'Leary was a highly regarded clinician, researcher, and academician—not just by his own students but by anyone acquainted with the field of periodontics. A full-time IU faculty member from 1968 to 1988, Dr. O'Leary conducted research on a variety of topics and was particularly interested in the effects of nonsurgical periodontal therapy. In the last years of his life he had worked on projects pertaining to the implant bone interface.



With assistance from Dr. E. Brady Hancock, IU's chair of periodontics and allied dental programs, Katherine O'Leary, Indianapolis, holds a "check" indicating that the endowment fund established in honor of her husband, the late Dr. Timothy J. O'Leary, has surpassed the \$100,000 mark.



Dr. Timothy O'Leary

A world leader in periodontics, Dr. O'Leary is the only person to have served concurrently as president of the American Academy of Periodontology, chair of the American Board of Periodontology, and editor of the *Journal of Periodontology*. He was the journal's editor for 18 years.

The endowment is a fitting tribute to Dr. O'Leary's lifetime commitment to research and teaching.

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## A. Rebekah Fisk Trust Benefits Dental Hygiene

**T**he dental hygiene program at Indiana University School of Dentistry (Indianapolis campus) is the beneficiary of a significant planned **gift from the estate of A. Rebekah Fisk**, IU's first director of dental hygiene.

Miss Fisk had the foresight to include the dental hygiene program in a trust fund; the proceeds of this trust have now provided \$50,000, which will be used in a variety of ways to support dental hygiene students.

Dr. Maynard K. Hine, who was dean of the dental school when Miss Fisk was appointed in 1950, recalls the early years of the program's formation: "Passage of a state law had recently made it legal for persons to pursue this new career in dentistry in Indiana, but few dental hygienists had been attracted to the state; so it was decided in the late 1940s to offer dental hygiene studies at the IU School of Dentistry. Miss Fisk was appointed first director—she was well-known to dental hygiene programs in the East and was herself an experienced dental hygienist, counting Dwight Eisenhower as one of her patients. Miss Fisk developed a strong dental hygiene program at IU and fit in well with the dental faculty."

Miss Fisk was a leader in this new field before she came to Indiana from Washington, D.C. She was a past national president and executive secretary of the American Dental Hygienists' Association. In 1961 she was appointed to a one-year term as president of the

supreme chapter of Sigma Phi Alpha national dental hygiene honor society.

Miss Fisk's first dental hygiene class at IU was composed of seven students, who graduated in 1952. Miss Fisk directed the program until her retirement in 1970. When she died in 1982, her friends and associates established the dental school's A. Rebekah Fisk Memorial Scholarship fund in her honor. That fund has served the dental hygiene program well, providing scholarships to students who demonstrate academic achievement.



*A. Rebekah Fisk presenting the C. V. Mosby Award to dental hygiene student Marilyn Hall in 1957. Today Marilyn (Hall) Smith resides in Indianapolis.*

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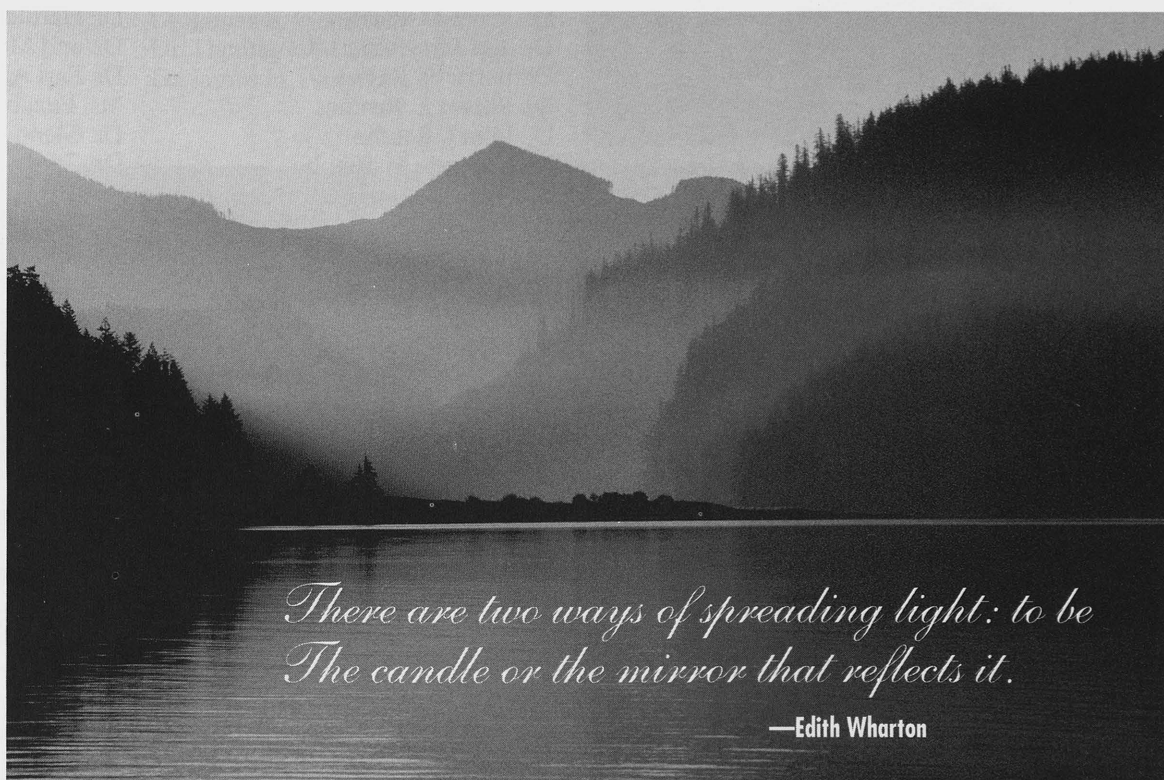
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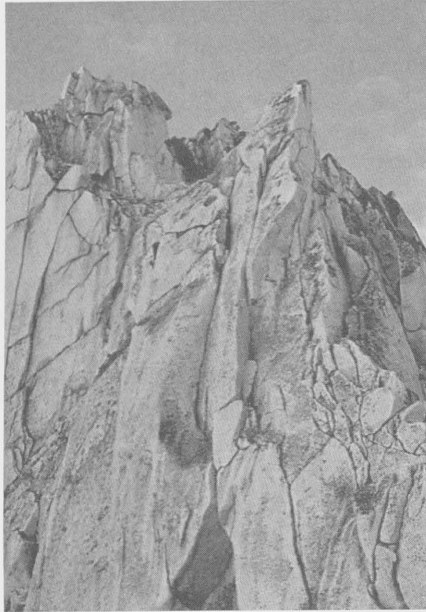


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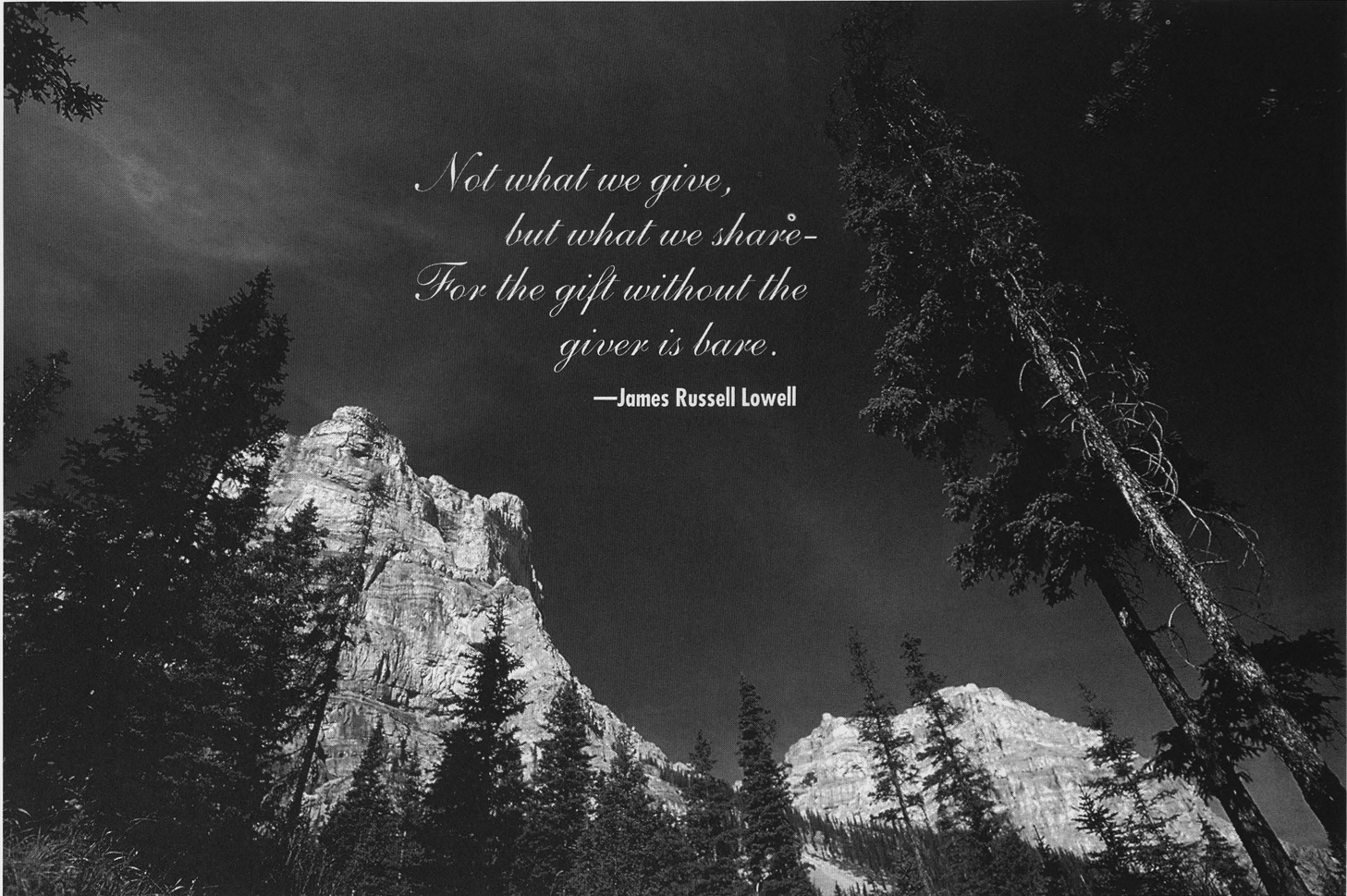
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*The IUSD Development Office makes every attempt to provide an accurate, up-to-date roster of the names of individuals and organizations contributing to these important funds. Omissions or errors should be reported to Barry Smith by writing to him at the dental school address or by calling (317) 274-3246.*



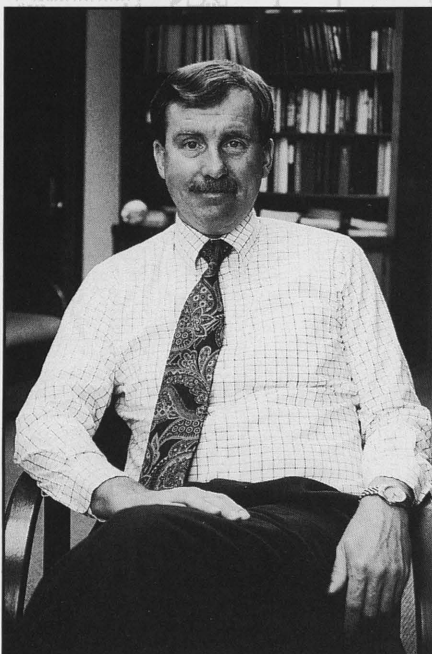
*Not what we give,  
 but what we share—  
 For the gift without the  
 giver is bare.*

—James Russell Lowell



# Keeping Decay at Bay

**R**esults of the most recent Indiana Oral Health Survey give Hoosiers reason to smile: the prevalence of dental decay in children, which plummeted in the 1970s, continues to decline in the 1990s. Principal investigator Mark E. Mallatt (DDS'75), a staff member of the Indiana State Department of Health and part-time Indiana University faculty member, points to Indiana's comprehensive fluoridation program as a primary reason increasingly more numbers of Hoosiers are enjoying good oral health. In March he presented results of the 1992-93 Indiana survey—the fourth in a series that began in 1958—to participants of the American Association for Dental Research annual session in San Antonio. He sat down with us after returning from Texas to share the highlights of his survey with our readers.



Susan Crum

Dr. Mark Mallatt

*How many children participated in the most recent survey?*

We examined 2,455, including 700 preschoolers, during 1992 and 1993. The older children, ranging in age from 6 to 15, were enrolled in school systems in 14 counties.

*That's one-fifth the number of children studied in the original survey in 1958. Why was the current survey smaller?*

One reason is that field surveys have become increasingly more expensive to execute, and identifying funds has become more challenging. Instead of having just one examining team in the field, as we did for the surveys in the 1990s and 1980s, the first two

surveys were conducted with the help of many volunteer dentists from district dental societies around the state who formed teams and performed the clinical exams in schools in their areas. Another factor reducing the number of readily available participants is the increase of federal, state, and institutional regulations that must be followed today, such as collecting informed consent forms, which must be signed by parents of the participants.

Also, a few of the schools, especially those in large urban systems that field many requests for extracurricular activities from outside organizations, were not interested in participating unless incentives were offered. The survey did not compensate schools in any way, except to offer them materials suitable for use in a dental health curriculum. Participating students received a toothbrush, a dental health sticker, and a parent advisory letter indicating the findings of the exam. Nonetheless, we feel we have collected very reliable data.

*What is the significance of your findings?*

Clearly, we can see how much has been accomplished in improving the dental health of Indiana's citizens. In the last 25



years, the decay rate has declined by nearly 70 percent, and it continues to decline. During the recent survey I saw child after child with no cavities whatsoever. Then—boom! I'd see one child with three or four cavities. I think there's truth to the belief held in some circles that 75 percent of the disease is showing up in 25 percent of the kids.

Compared to many other states, Indiana is doing quite well in its battle against dental decay, but we have by no means eliminated it. Preventive measures are the key to Indiana's ongoing challenge to keep decay at bay. A family's best defense against tooth decay will always include maintaining good oral healthcare habits and visiting the dentist regularly for preventive treatments.

I think the decay rate will decline further, although we probably are approaching a point where the rate will plateau. Preventive measures can only take it so far. A person's oral health will continue to be greatly influenced by his or her lifestyle choices.

#### *How was the survey funded?*

With an allocation from the Maternal and Child Health (MCH) block grant, a federal program which at the time was overseen by Kathy Weaver, RN, MPA, who is now an assistant commissioner at the health department.

*You attributed the continued decline in dental decay in large part to the increased numbers of Hoosiers with access to "optimally fluoridated" water. What do you mean?*

Water that contains fluoride, a naturally occurring element, in the range of 0.7 to 1.2 parts per million (ppm). Indiana has a lot of areas where the water is naturally fluoridated at the

optimal level. Natural fluoride occurs throughout the state, but a big pocket lies in northeast Indiana; it flares into Ohio, stretching across 15 Hoosier counties. If you drop a well in that area, you have a 95 percent probability of finding optimally fluoridated water.

Most Hoosiers have access to optimally fluoridated water now because of the fluoridation program initiated by the Indiana State Department of Health in 1951.

#### *Why did Indiana start fluoridating its water?*

Because of the foresight of the ISDH and the late Roy Smiley (DDS'08), then dental director, we got on the band wagon right away. The department was reacting to data collected in four now-classic studies conducted in the U.S. in the mid-'40s. In these studies fluoride was added to the water supplies in cities with little natural fluoride. What resulted was a big reduction in tooth decay in those cities, by as much as 65 percent.

Progress has continued under subsequent directors Chuck Howell (DDS'46), now deceased; Chuck Gish (DDS'49); Victor Mercer (DDS'53); and current director Chuck Smith (DDS'61). Indiana launched the fluoridation program in Indianapolis, Fort Wayne, and Huntingburg, and it gradually took off around the state. Today, with the exception of Connersville, which chooses not to participate, all of Indiana's

cities of 10,000 people or more have optimally fluoridated water. The fluoridation program serves about 3.8 million Hoosiers, or 98.6 percent of state residents who are on city water systems.

In addition, schools throughout Indiana have an opportunity to participate in the Oral Health Research Institute's voluntary fluoride mouthrinse program, which has been active for nearly two decades. In this program, which originally was a joint project with the Indiana State Department of Health, children rinse with fluoride at school once a week throughout the school

## **The People Who Made the Survey Possible**

### **INDIANA STATE DEPARTMENT OF HEALTH**

**Dr. Mark Mallatt, principal investigator**

**Dr. Charles Smith, co-investigator**

**Nancy Blough**

**Dr. Judy Ganser**

**George Marks**

**the late Dr. Jack Mollenkopf**

**Eloise Moore**

**Kathy Weaver**

**Bill White**

**Karen Yoder**

### **IU SCHOOL OF DENTISTRY'S**

### **ORAL HEALTH RESEARCH INSTITUTE**

**Dr. Bradley Beiswanger, co-investigator**

**Marc Beiswanger**

**Becky Cheetham, project coordinator**

**Sharon Gwinn**

**Dr. Barry Katz**

**Jeffrey McClure, project recorder**

**Marilyn Richards**

**Sherry Smith**

**Dr. George Stookey**

**Linda Timmerman**

**Judy Weldon**

*The survey was conducted with the support of Evan Bayh, governor of Indiana; John C. Bailey, MD, commissioner of the Indiana State Department of Health; and H. William Gilmore, DDS, dean, Indiana University School of Dentistry.*



## INDIANA ORAL HEALTH SURVEY

Findings Collected from Clinical Exams and the  
Informed Consent Statements Submitted by Parents

*Counties surveyed: Allen, Delaware, Fayette, Grant, Greene, Hamilton,  
Hendricks, Lake, Marion, St. Joseph, Scott, Sullivan, Vanderburgh, and Vigo*

- The decay in both deciduous and permanent teeth continues to decline in Indiana
- Approximately 74% of the children examined (age 6 and older) did not have a carious lesion at the time of the examination
- Filled surfaces accounted for 69% of the DMFS (decayed, missing, and filled surfaces of teeth); decayed surfaces accounted for 28%
- The occlusal component accounted for about 62% of the DMFS
- Girls and boys had similar numbers of decayed surfaces, but girls had more filled surfaces; DMFS scores were higher for girls
- 20% of the children age 6 and older had at least one pit and fissure sealant
- Caries prevalence was similar for African American and Caucasian children but higher for Hispanic children
- As the educational level of the parents increased, the DMFS rate in their children decreased
- Baby bottle tooth decay prevalence was 1.9% for children 7 years old and younger
- Gingivitis scores tended to increase with age, but there was little difference between boys and girls
- Mild dental fluorosis was generally higher for younger participants
- 22% of children in the survey were eligible for or enrolled in Medicaid
- 52% were covered by dental insurance plans
- 68% visited a dental office at least once a year
- 41% received topical fluoride applications at the dental office
- 90% used a fluoride toothpaste
- 25% used a fluoride mouthrinse
- 3% used fluoride tablets or drops
- 92% used one or more of the above fluoride products

*The Indiana Oral Health Survey 1992-93 Final Report is on file  
in the Indiana University School of Dentistry Library.*

year. Last year, nearly 60,000 kids in 62 of Indiana's 92 counties were enrolled in the program.

Given Indiana's abundance of naturally occurring fluoride, the statewide mouthrinse program for children, the water fluoridation program for about 80 schools in rural areas, and our city fluoridation efforts, I think Indiana probably has the premier fluoridation program in the world.

*You called the survey a joint effort of the dental school's Oral Health Research Institute and the Indiana State Department of Health. How so?*

The institute performed a lot of the statistical analysis, loaned us equipment, and kept us supplied with sterile instruments during a hectic schedule. We often did not return from a school site until 5 or 6 pm, but the institute made sure we had everything we needed when we left for our next site the following morning. The Oral Health Research Institute conducted the 1981-82 survey in its entirety.

*How was this survey different from the previous surveys?*

Previous surveys were basically random samples of children throughout Indiana, with an emphasis on looking at equal numbers of children in several categories (e.g., age groups, urban vs. rural, fluoridated locations vs. nonfluoridated). Since MCH was paying for this survey, we looked at variables Kathy Weaver's group was interested in, such as the dental health of minority populations and preschoolers. A total of 803 African American children participated in the survey, so our sample was not necessarily representative of all Indiana schoolchildren in terms of percentage of population. The MCH's main interest was to obtain baseline data for the

Healthy People 2000 project. We looked at fewer children compared to previous surveys, but at many more parameters in addition to dental caries, which was the main thrust before.

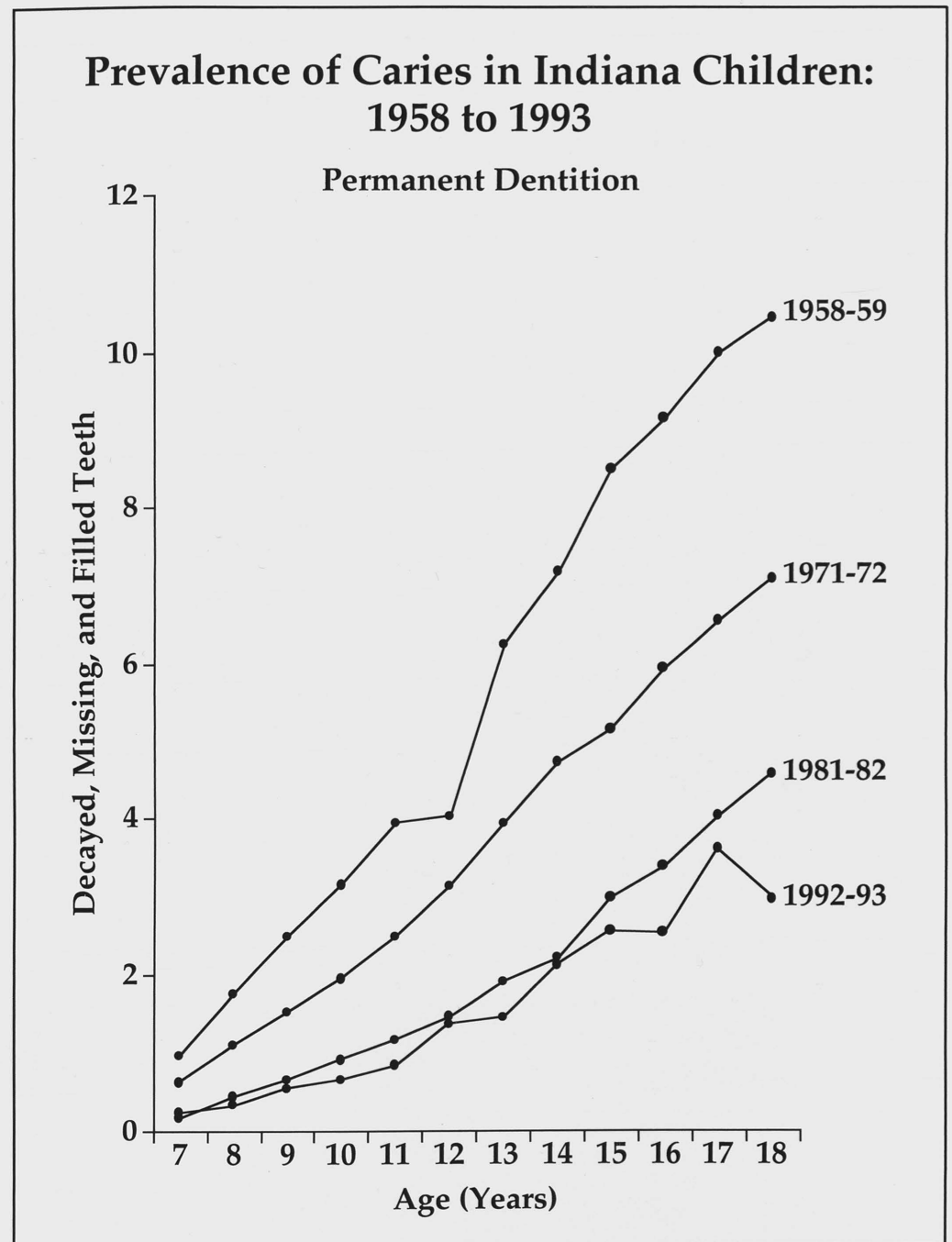
#### *What is Healthy People 2000?*

It's a document put forth by the federal government on health and wellness goals that should ideally be reached in this country by the turn of the century. Oral health is just one component. Some of the goals are lofty—for example, it is recommended that 50 percent of the country's children be protected by dental sealants by the year 2000—I have a hard time picturing that happening within five years. On the other hand, the project's objective of having 75 percent of city residents drinking fluoridated water by the year 2000 was reached in Indiana 15 years ago!

#### *Did you encounter any obstacles while conducting the survey?*

I'm so used to hauling dental equipment into school systems, as I did for many years in my former position with the Oral Health Research Institute, that what most people would think of as obstacles aren't really problems for me. You get used to setting up your dental "office" in a gymnasium, library, or corner of a hallway.

If anything, we were a bit disappointed by the weak response we got from a few of the school systems we had hoped would participate, especially when we attempted to collect data on 15-year-olds, who are of special interest to the Healthy People 2000 group. In one city, we sent out 600 packets containing consent letters and all of the related information—and we got five back! Elementary school kids are cooperative, but teenagers present a challenge. It's not considered "cool" to sit



around in a dental chair at school when you're 15.

#### *Were there surprises in the data?*

I thought it was interesting that we found virtually no variance in caries prevalence between black and white children, since several national surveys have found greater caries prevalence in African American children. We did find a higher rate of caries in Hispanic

children, but the sample was very small, and I wouldn't want to extrapolate anything from that finding. Most of the Hispanic children we examined came from a small area around East Chicago, and we were told that this school has a high transient population. I'd like to think of Indiana's comprehensive fluoride program as an equal opportunity protector.



***Does the amount of fluorosis you found in the children concern you?***

No, most of the cases we saw were very mild. Mild and moderate fluorosis gives teeth a slightly whiter look, sometimes with "snow-capped" cusps. The effect is often so slight you have to be trained to notice it. Actually, teeth with mild fluorosis are very caries resistant.

You can't get fluorosis from the topical applications such as toothpastes, mouthrinses, and treatments in the dentist's office. Fluorosis develops when teeth are first being formed, when the ameloblasts are laying down enamel. You could pour gallons of topical fluoride onto erupted teeth without causing fluorosis.

Of course, it's important to continue studying the use of fluoride, and Indiana University is a leader in this area of research. The Hoosier state has regions containing high natural concentrations of fluoride in the water—there's a spot just east of Terre Haute where the numbers go as high as 7.5 ppm. Three

Hoosier communities have been helping the Oral Health Research Institute conduct a five-year, \$3.1 million comparative study of the safe use of fluoride in persons who might be more likely to encounter adverse effects, such as medically compromised patients with diabetes, renal disease, or osteoporosis. Connersville was chosen because of its low-fluoride environment, Lowell because of its high level of natural fluoride, and Brownsburg because it is optimally fluoridated. The research group, led by Dr. George Stookey, IU's associate dean for dental research, is also looking at the safe use of fluoride in persons with nutritional deficiencies living in China and Ecuador. Exposure to fluoride is very high in these countries because homes are heated and food is cooked with fluoride-containing coal.

***What does your survey say about Indiana's oral health outreach programs?***

It says a lot for Indiana's outreach efforts. The continued

reduction in caries reflects in part the benefits of Indiana's emphasis on prevention and education. There is much more dental awareness out there these days. Historically, oral health was relegated to "afterthought" status—not just by families struggling to make it financially but also by persons in charge of funding healthcare grants. That's not true anymore. Programs such as Headstart and other federal programs regard dental health as an important component of overall wellness.

The survey also reflects the excellent collaborative spirit that exists in Indiana between the dental school, the department of health, and the Indiana Dental Association membership. We don't see the turf wars that are common in some states. And our ability to get along well helps us get a lot more done.

***What kind of water do you drink?***

I'm on a well in Plainfield, which is naturally fluoridated right at an ideal 1.02 ppm. ■

## Board Bulletin



### Welcome to the Board

The newest members of the Indiana University School of Dentistry Alumni Association's board of directors participated in the group's winter meeting, held at the Radisson Hotel in Indianapolis on January 14. Standing, from left: Executive council representative Robert Modlin (DDS'59), West Lafayette, and board members Frederick Sputh (DDS'77), Lafayette, and Jeffery Gore (DDS'91), Richmond. Seated from left are Phillip Pate (DDS'68), Kokomo, and Stephen Rasmussen (DDS'86), Crawfordsville. Not pictured are Suzanne Moss Goble (ASDH'85), Indianapolis, and Robert Kunas (DDS'85), Champaign, Ill.

Board members are elected at the close of each Fall Dental Alumni Conference and serve three-year terms. The new board members are serving from 1994 to 1997. The board currently has 17 directors and six officers, including President Roger Isaacs (DDS'69), Bloomington.

# 1994-95 Scholarships and Awards

43 Awards Lighten the  
Load for IUSD Students

"It makes your day to receive a scholarship," says Kyley Wood, a third-year dental student from Mitchell, Ind., who is one of four persons to receive an IUSD Alumni Association scholarship this year.

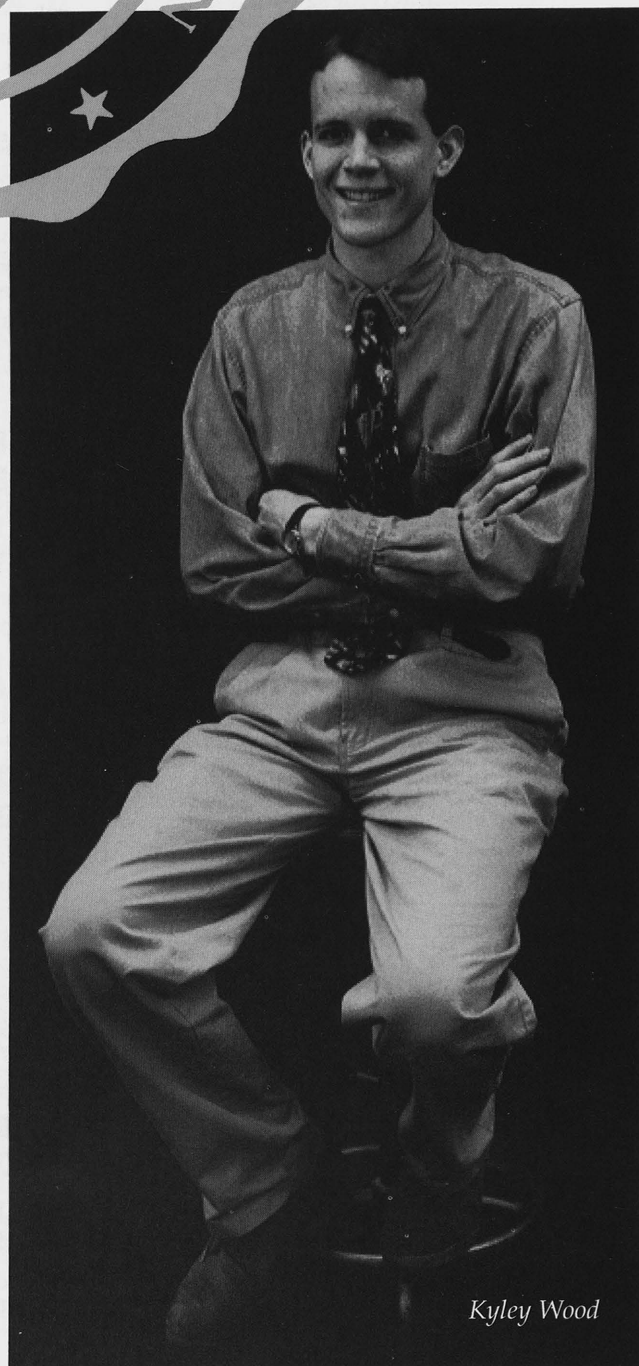
It also goes a long way in meeting some of the myriad expenses one encounters in dental school.

Dental school bills arrive at the Wood residence with a double whammy—Kyley and his wife, Shannon, also of Mitchell, are earning Doctor of Dental Surgery degrees together. Both are members of the Class of '96.

The couple share an apartment in Southport, and they are planning a family. While Shannon looks forward to a career as a general practitioner, Kyley's interests lie with oral and maxillofacial surgery. He will soon begin the application process for this program, which requires another four years of school.

Like any other young couple, Kyley and Shannon count every penny and are grateful for extra help that comes their way.

In contemplating his Alumni Association scholarship, Kyley says he sees a special link between dental students and dental alumni: "Nobody else in the world understands what you're going through when you're in dental school except your own classmates and the students who went through the system before you. I think members of the alumni realize better than anyone how demanding dental school is, and graduates from other generations can appreciate how much a dental education in the 1990s costs. The Alumni Association is generous to make such awards available for students."



*Kyley Wood*



This year Kyley also received one of Omicron Kappa Upsilon's interest-free loans, awarded to students for demonstrating academic excellence. And shortly before the *Alumni Bulletin* went to press, Kyley learned that he is the recipient of the Howard K. and Shizuko Maesaka Award, given for excellence in preclinical technique in prosthodontics.

"I am deeply grateful for all three sources of assistance," says Kyley. "I just hope each realizes how much these funds help." ■

## **SIGMA PHI ALPHA SCHOLARSHIPS FOR DENTAL HYGIENE STUDENTS**

Michele Heck, 2nd yr  
Stephanie A. Scott, 2nd yr\*  
Trinh T. Vu, 2nd yr

Awarded by Theta Chapter of the national dental hygiene honor society. Recognizes leadership skills as well as academic and clinical performance.

*\*Ms. Scott was awarded two scholarships—the first was presented at the end of her first year of study.*

## **MICHAEL T. WILSON MEMORIAL SCHOLARSHIP FOR DENTAL STUDENTS**

Reneé DuChane, 4th yr

Named in memory of a dental student from Columbia City who was in his third year of studies at the time of his death in 1983. Established by Mr. Wilson's family and friends, including his parents, Carolyn K. Wilson, of Columbia City, and Dr. John S. Wilson, of Deland, Fla.; and his sisters, Cathy Hunter, of Columbia City, and Kimberly Egolf, of Ligonier.

## **HOWARD K. AND SHIZUKO MAESAKA AWARD FOR DENTAL STUDENTS**

Kyley A. Wood, 3rd yr

Awarded for excellence in preclinical technique in prosthodontics. Honors a 1926 graduate of the IU dental school and his wife. Dr. Maesaka died in 1975 and Mrs. Maesaka resides in Oahu, Hawaii. Their sons are Ray K. Maesaka (DDS'60), Indianapolis, and Clifford T. Maesaka (DDS'61), St. Paul, Minn; and their grandson is Clifford T. Maesaka, Jr. (DDS'86), Louisville, Ky.

## **GUTHRIE PULLMAN CARR**

### **ACADEMIC ACHIEVEMENT AWARDS FOR DENTAL STUDENTS**

John Craig Cook, 2nd yr  
Scott W. Overholser, 3rd yr

Honors the memory of a 1915 graduate of the Indiana Dental College who practiced in Lafayette and died in 1960. Dr. Carr was the father of IUSD graduates Guthrie E. Carr (DDS'54) and W. Kelley Carr (DDS'55, MSD'61), and the grandfather of Guthrie P. Carr (DDS'87), all of Lafayette.

## **HARVEY G. LEVINSON**

### **MEMORIAL SCHOLARSHIPS FOR DENTAL STUDENTS**

David Clay Miller, 4th yr  
Michelle L. Wittler, 4th yr

Given in part for academic achievement, the scholarships are named in memory of a 1960 IUSD graduate and dental practitioner in Sherman Oaks, Calif. Dr. Levinson, who died in 1986, had practiced with his uncle, Irving S. Newmark (DDS'45), since 1961. Established in 1987 by Dr. Newmark and Dr. Levinson's brother, Steven N. Levinson, both of Studio City, Calif.

## **A. REBEKAH FISK**

### **MEMORIAL SCHOLARSHIPS FOR DENTAL HYGIENE STUDENTS**

Katherine M. Carr, 1st yr  
Pamela Good Poynter, 1st yr

Awarded for academic achievement. Named for IU's first director of dental hygiene. Miss Fisk established IU's program on the Indianapolis



campus in 1950 and served as director until her retirement in 1970. She died in 1982.

### **GEORGE A. WELCH MEMORIAL SCHOLARSHIP FOR DENTAL STUDENTS**

Matthew C. Hill, 4th yr

In memory of a longtime Rockville dentist and an IUSD Distinguished Alumnus (DDS'51) who died in 1992. Presented in part to a 4th year student who has outstanding personal qualities, including an excellent rapport with dental patients, classmates, faculty, and staff, and who demonstrates an interest in general dentistry. Established by Dr. Welch's friends and family, including his wife, Frances, Rockville; son, Dr. David Welch, Edmond, Okla.; daughter Christine Lindsey (ASDH'75), Washburn, Wis.; daughter Nancy Witty, Rockville; and daughter Mary Ruth Staadt (DDS'85), Rockville.

### **MARTHA LOUISE KUTKA MEMORIAL SCHOLARSHIP FOR DENTAL STUDENTS**

Tamara S. Eaton, 3rd yr

Established in 1981 by family and friends of the mother of Portage dentist Laura Kutka Hannon (DDS'80). Presented in part for academic achievement to women in dental or medical school.

### **IUSD ALUMNI ASSOCIATION SCHOLARSHIPS FOR DENTAL STUDENTS**

Yuval Arazi, 2nd yr

Edward M. Sammons, 4th yr

Lana R. Stoll, 4th yr

Kyle A. Wood, 3rd yr

Given by the association in recognition of academic achievement.

### **ROBERT J. ALBER MEMORIAL SCHOLARSHIPS FOR DENTAL STUDENTS**

Angela Becker, 1st yr graduate student in orthodontics

M. Scott Frey, 2nd yr

Jennifer A. Marshall, 1st yr

Laura A. Ringle, 2nd yr

Michael S. Trout, 3rd yr

Named for a graduate of the IUSD Class of 1947 who was a dentist in Ligonier. Dr. Alber died in 1970. Awarded to residents or former residents of Noble, Elkhart, LaGrange, or Kosciusko counties.

### **OMICRON KAPPA UPSILON AWARDS FOR DENTAL STUDENTS**

#### **Scholarships**

Yuval Arazi, 2nd yr

Timothy J. Frey, 4th yr

Awarded by Theta Theta Chapter of the national dental honor society. Mr. Arazi received his award for maintaining the highest grade-point-average in the Class of 1997 during his first year of study, and Mr. Frey received his for earning the highest GPA in the Class of 1995 during the first three years of dental school.

#### **Loans for Academic Excellence**

Jeffery C. Biggs, 3rd yr

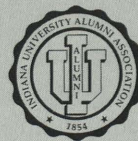
R. Bryan Dixon, 2nd yr

James E. Duncan, 3rd yr

Kimberly A. Edwards, 4th yr

Joseph R. Gregg, 4th yr

## **Did You Know?**



- *The Indiana University School of Dentistry Alumni Association is one of the oldest constituent societies within the Indiana University Alumni Association (IUAA).*
- *About 28 percent of the dental school's graduates belong to the Alumni Association. We rank second of all the IU schools and divisions in percentage of alumni who are association members (only the medical school has a larger percentage).*
- *Now in its 53rd year, dentistry's Fall Dental Alumni Conference is one of the largest constituent events, lasting three days and attracting more than 400 registrants each year.*
- *IUAA membership dues of \$40 per year include a subscription to the university's Indiana Alumni magazine, which is produced on the Bloomington campus and published six times per year. (Not to be confused with the quarterly Alumni Bulletin, which is a complementary publication produced by the dental school.) If you'd like more information about joining the IUAA, contact Karen Deery: IU Alumni Association (Indianapolis campus), 850 West Michigan Street, Suite 200, Indianapolis, IN 46202-5198; phone (317) 274-8959.*



OKU continued . . .

Kevin R. Haddle, 3rd yr  
Todd J. Kleinrichert, 2nd yr  
Christopher M. Steffey, 2nd yr  
Kyley A. Wood, 3rd yr

Interest-free loans are awarded by OKU to students in part for demonstrating outstanding scholarship.

### **FRANK R. AND JESSIE B. JOHNSON PUBLIC HEALTH DENTISTRY SCHOLARSHIP FOR DENTAL STUDENTS**

Kevin M. Freeman, 2nd yr

Created in 1975 by Donald W. Johnson (DDS'56), Carmel. Named in memory of his parents and awarded to students who demonstrate an interest in public health dentistry.

### **ISAAC KNAPP DENTAL EDUCATION FOUNDATION SCHOLARSHIPS FOR DENTAL STUDENTS**

Derek R. Fleitz, 4th yr  
Bret M. Ford, 3rd yr

Established in 1991 by the Isaac Knapp District Dental Society to aid students in their pursuit of a dental education. Funds one 3rd yr and one 4th yr student annually. Candidates must be affiliated with one of 10 counties within the Isaac Knapp District Dental Society area (Adams, Allen, DeKalb, Huntington, Jay, LaGrange, Noble, Steuben, Wells, and Whitley). Mr. Fleitz's award is a renewal of the award he received last year; Mr. Ford received the 3rd yr student award for the 1994-95 academic year.

### **ELKHART COUNTY DENTAL SOCIETY MEMORIAL SCHOLARSHIP FOR DENTAL STUDENTS**

Michael S. Trout, 3rd yr

Assists students of dentistry who reside in Elkhart County. Honors the memory of dentists who were members of the Elkhart County Dental Society. This year the scholarship was once again given in memory of Dr. Tillman E. Miller, an Elkhart dentist and 1980 graduate of the Indiana University School of Dentistry who died in 1990. Dr. Miller was a past president of the Elkhart County Dental Society.

### **MILO V. SMITH SCHOLARSHIPS FOR DENTAL STUDENTS**

John W. Adelsperger, 2nd yr  
Isaac L. Dickey, 1st yr  
Tamara S. Eaton, 3rd yr  
John K. Loudermilk, 4th yr  
Michael V. Razzano, 2nd yr  
David Y. Tambunan, 3rd yr

Named for an 1896 graduate of the Indiana Dental College who practiced in Winchester. Dr. Smith died in 1943.

Reading about some of Edgar Randolph Parker's escapades, I wanted to tweak his nose and call him a scamp.

Other capers of his left me more in the mood to bloody his nose and call him something unprintable.

At once repugnant and endearing, the fellow from the rocky shores of the Bay of Fundy, in New Brunswick—who legally changed his name to Painless Parker—is not likely to engender feelings of indifference in anyone reading this 491-page adventure covering the life and times of dentistry's best-known "renegade" dentist (who flaunted his ads decades before advertising became legal in 1977).

The biography, *Painless Parker: A Dental Renegade's Fight to Make Advertising "Ethical,"* is written by IU faculty member Arden Christen, Department of Oral Biology, and his Canadian colleague, Peter Pronych, of Dalhousie University in Halifax, Nova Scotia. Dr. Christen spent 13 years planning the book and three summers in the late 1980s pursuing the project on sabbatical from IU. He gathered information at the Smithsonian Institution in Washington, D.C., and traveled around the country to interview Painless' friends, associates, and relatives (including his daughter, Jane, who turns 93 in June).

Painless was born in New Brunswick in 1872 and graduated "by the skin of his teeth" from what is now Temple University School of Dentistry, in Philadelphia. He devoted his life to the spirited pursuit of a dental career, Parker-style, which

A look at a new  
biography on  
Painless Parker

# Painless Reading

necessitated his ignoring most of the rules and regulations established by organized dentistry, including laws prohibiting advertising. Pooh-poohing the conventionality of the profession, Painless brazenly minded his own flashy business and usually managed to stay a hop and a skip ahead of his outraged contemporaries. By the time he was done (he died in San Francisco at the age of 80), Painless had built an empire of dental offices in eight states as well as British Columbia.

Dr. Christen's interest in Painless was first piqued when he took over IU's course on dental history and was combing through material on ethics. In search of facts about this one-dimensional "quack," Dr. Christen found instead details to indicate Painless was a hard-working, often misunderstood human being of enormous complexity and energy. Dr. Christen became fascinated by the paradoxical nature of a man who both charmed and repelled.

To get the word out into the community about his practices, Painless left no marketing strategy unturned. In the lean early years he was a street entertainer. He peddled dentistry from door to door, from town to town, performing dental procedures in private parlors, hotel rooms, trucks, and tents. He tried to appeal to the citizenry as a respectable young professional by lugging his family's 15-pound bible to church services.

Wealth and success did nothing to tone down the incorrigible showman. Taking his cue from his publicity agent

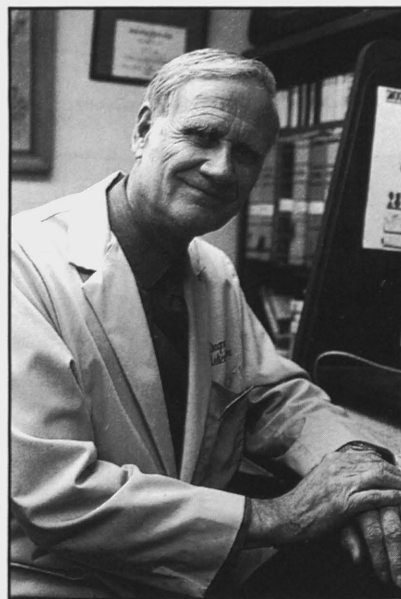
(who wanted Painless to emulate P.T. Barnum), Painless advertised "by inundation." He led parades, rode elephants, held street-dentistry demonstrations for hundreds, wrapped huge signs around the buildings in which he practiced, and swamped newspapers with ads featuring drawings of molars decorated with his face.

"Without passing a lot of judgment on him, we felt Painless' story should be told in full," says Dr. Christen.

And tell it they do, with a barrel full of amusing and poignant anecdotes and a bountiful selection of excerpts from Painless' correspondence. (Dr. Christen uncovered a well-organized stash of Parker's letters sitting forgotten for 50 years in a barn in northern California.)

It is Drs. Christen's and Pronych's straightforward recounting of the facts that leads the reader to feel empathy for Painless in one chapter—he was capable of showing great tenderness and generosity to down-and-out dentists, and rehabilitated many of them by offering them jobs in his clinics—and to shudder at his gaucheries in the next (to boost an increasingly outlandish ad campaign that never seemed to reach its zenith for this insatiable media-hound, Painless purchased a circus for \$50,000 and promptly set up a tent for the Painless Parker Dental and Medical Clinic, sandwiching it between exhibits for a tattooed lady and a living skeleton).

But Dr. Christen is glad to have had a hand in bringing to



File Photo

Co-author Arden Christen

light some of Painless' deeds that are often overlooked by his critiques. "Many of the things we do in dentistry today Painless had a part in putting together such as the concept of group practice," remarks Dr. Christen. "He had profit sharing and group insurance plans for his employees. And he had a legitimate concern for preventive dentistry. Many people still equate shabby dentistry with Painless Parker, but the man had his good points."

The authors roll good points together with the bad into this entertaining and informative narrative of a man who wove a colorful career into the American tapestry during the first half of this century.

by Susan Crum

Alumni with an interest in obtaining this book should contact Dr. Arden Christen for an order form: c/o Indiana University School of Dentistry, Room B19, 1121 West Michigan Street, Indianapolis, IN 46202-5186.



## Dental hygienist Penny Fingerhut finds IU's bachelor's degree program in Health Sciences Education a natural complement to her associate's degree

by Mary Leesa Rehmel

**D**ressed in a faculty-blue clinic gown, Penny Fingerhut moves from one student to the next in the IU School of Dentistry's dental hygiene division. She's keeping pace in a lively clinic, which is driven by an instructor/student ratio of 1-to-7. She could easily be mistaken for an IUSD faculty member, but the fact is that Penny is still a student herself.

A 1986 graduate of the IU associate's degree program in dental hygiene (South Bend campus), Penny is one of three dental hygienists currently fulfilling student teaching requirements for advanced degrees by serving as special instructors at the dental school.

Penny has found that teaching is not as easy as it looks, yet she enjoys the feeling she gets from helping her future colleagues. With eight years of private practice dental hygiene to her credit, including experience logged in general and periodontic practices, Penny has a great deal of practical and acquired knowledge to share with her students.

Penny is in her final semester of a baccalaureate degree program offered through Indiana University. It is one of several IU programs that are particularly well suited for dental hygiene graduates who wish to further their education (see list on page 23).

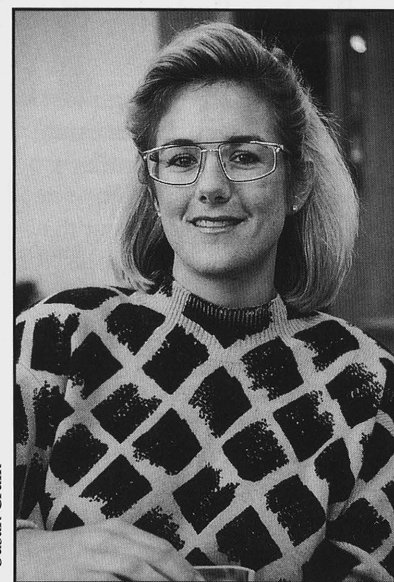
Penny is earning her degree in Health Sciences Education through the School of Allied Health Sciences. The program is under the direction of Karen Gable (ASDH'69, BS'76, MS'79, EdD'85), an assistant professor in IU's Department of Health Occupations Education. The department is housed in Coleman Hall (formerly Coleman Hospital) across the street from the dental school.

Penny intends to use the degree to expand her career opportunities. She's currently interested in pursuing a position in sales, perhaps in pharmaceuticals. Penny still enjoys chairside dental hygiene, and her plans do not preclude her continued involvement in clinical dentistry; yet she is excited about the new doors that will open upon completion of her BS. She expects to receive her diploma in May 1995.

Baccalaureate degrees such as the one Penny is earning typically require an extra year of study beyond the three-year associate's degree.

Penny has found the fourth year of her college education to be quite different from the first three. "We have more freedom to choose courses that interest us, aside from the required classes, and freedom to progress at a pace that works best for us personally," she says.

The program also places a greater emphasis on self-direction and individual field work, which can take some getting use



Penny Fingerhut

to for students who are accustomed to the environment of a large dental hygiene class, where camaraderie and close friendships among students often flourish. "We don't stay with the same classmates, as we did in dental hygiene, but at the baccalaureate level I've shared required courses with some very interesting and fun people," says Penny.

The bachelor's degree can be pursued part time, enabling students to further their education while holding jobs or managing other time-consuming responsibilities in their lives. This arrangement has worked well for Penny, as it has for many other students.

Born and reared in North Judson, Ind., Penny is the first member of her family to enter the dental profession. She thinks that the factors exerting the strongest influence upon her decision to become a dental hygienist were the pleasant dental office experiences she had as she was growing up and her



introduction to the profession through high school career-day programs.

After graduating in 1986, Penny immediately embarked upon the BS program in Indianapolis and originally planned to finish it in one year. But after completing the fall semester's classes, Penny decided to take some time off to think about the best direction for her career.

She accepted a position to practice dental hygiene in the office of Charles E. Crawford (DDS'64) and Darlene S. Vaughan (DDS'76), in Indianapolis. After making inquiries and obtaining feedback about careers in the business world, she began to view the bachelor's degree as a means of acquiring the knowledge that she would need to become a competitive candidate for positions in sales. Penny re-entered the BS program in 1990, spending the next few years studying part time while gaining valuable practice experience in several offices.

Penny says that the program in Health Sciences Education has enlightened her on a great variety of topics and issues. "Clinical performance isn't the focus, as it needed to be in the AS program," she says. The BS program has helped sharpen her communications and management skills. The curriculum emphasizes the student's ability to relate to the public in general, and to patients in particular, in many types of situations.

The most challenging project Penny encountered in Dr. Gable's program was to design, from the ground up, a fictitious dental hygiene education program. The assignment demanded fiscal savvy, among other managerial talents. "I had to allocate all of the funds for 'my' program," explains Penny, "taking into consideration

everything from faculty salaries to gauze squares!" This activity helped her understand the practical day-by-day realities of running a dental hygiene program.

Penny's only connection to the dental school during the past year has been through her 16-week student teaching assignment. Penny's teaching efforts at the school are supervised primarily by Evelyn Oldsen, IU's director and associate professor of dental hygiene. Dr. Gable also visits the clinic periodically to critique Penny's skills.

Asked how this component of her education is going, Penny says that, like many non-traditional teachers, she is often challenged by the students. She understands where they are coming from. "It wasn't that long ago that I was on the other side of the dental chair," she says with empathy. "I remember as a student feeling intimidated by some instructors, so I try to avoid that situation today. I find it especially rewarding to help students understand a technique that has become second-nature to me but is completely new to them."

Although Penny Fingerhut doesn't see teaching as playing a part in her life in the near future, she values the exposure she has received to dental hygiene from the educator's perspective. Earning a BS degree has been an edifying experience for Penny, and one that she hopes will add to her versatility in the job market. ■

## For more information about dental hygiene degree-completion programs in Indiana:

### *Bachelor of Science Degree in Health Sciences Education, School of Allied Health Sciences:*

Dr. Karen Gable  
Program Director, Health Sciences  
Education  
Coleman Hall 322  
1140 West Michigan Street  
Indianapolis, IN 46202-5118  
(317) 278-1353

### *Bachelor of Science Degree in Public Health Dental Hygiene, School of Dentistry:*

Professor Evelyn Oldsen  
Director of Dental Hygiene  
Indiana University School of Dentistry  
1121 West Michigan Street  
Indianapolis, IN 46202-5186  
(317) 274-7801

### *Bachelor of General Studies Degree, School of Continuing Studies:*

Dr. Robert Lovely  
Chair, Division of Continuing Studies  
Indiana University Northwest  
3400 Broadway  
Gary, IN 46408-1197  
(219) 980-6829

### *Bachelor of Science Degree in Dental Health Education,\* School of Education:*

Professor Elaine Foley  
Chair of Dental Hygiene  
Department of Dental Education  
Indiana University-Purdue University  
Fort Wayne  
2101 Coliseum Boulevard East  
Fort Wayne, IN 46805-1499  
(219) 481-6837

\*Program currently is being revised. Proposed degree title is Health Sciences Education.

## A fifth degree-completion program available to dental hygiene graduates is offered at the University of Southern Indiana:

### *Bachelor of Science Degree in Dental Hygiene Education, School of Nursing and Health Professions:*

Professor Deborah Henry  
Director of Dental Hygiene  
University of Southern Indiana  
8600 University Boulevard  
Evansville, IN 47712  
(812) 464-1702



# On Course

## Indiana University School of Dentistry Continuing Education Calendar

(Courses held in Indianapolis unless otherwise stated.)

### August 25, 26

**CE354 Implementing Implant Prosthodontics into Your Practice** (Lecture and Workshop)  
Dr. Timothy Kosinski, Birmingham, Mich., and Mr. Lawrence Sowinski, Somer Dental Laboratories, Zionsville

### September 8

**CE356 Treatment with an Oral Device for Patients Who Snore and Patients with Obstructive Life-Threatening Sleep Apnea**  
Dr. H. Edward Lyon, Lexington, Ky.

### September 14-16

**CE358 53rd IUSD Fall Dental Alumni Conference** (Held in Bloomington):  
**Nutrition for You and Your Patients** (Friday)  
Carol Friesen-Schroeder, PhD, Marion County Health Department, Indianapolis

### September 20

**CE359 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

**CE360 The 1995 Infection Control and OSHA Requirements for Dentistry**  
Dr. James Cottone, University of Texas Health Science Center, San Antonio

### September 29

**CE362 New Aspects of Clinical and Esthetic Dentistry**  
Dr. Gordon Christensen, Clinical Research Associates, Provo, Utah

### October 7-10

**American Dental Association Annual Session** (Held in Las Vegas)

### October 11

**CE367 Radiology for Dental Personnel** (Lecture)  
Gail Williamson, IU associate professor, Department of Oral Surgery, Medicine and Pathology

### October 20

**CE371 Sharpen Up! An Instrument Workshop for Dental Hygienists**  
Trudy Short, Baylor University

### November 2,3

**CE373 Advanced Endodontic Concepts, Technology and Techniques** (Lecture and Workshop)  
Dr. Donald Arens, IU associate professor, Department of Restorative Dentistry

### November 16-18

**CE376 Regaining Pleasure and Success with Complete Dentures, The Earl Pound Demonstration Course**  
Dr. W. F. "Jack" Turbyfill, West Columbia, S.C.

### December 1

**CE379 The Roles of the Doctor and Allied Dental Professionals in Establishing Patient Trust**  
Dr. Donald Arens and Dr. Robert Lockhart, Carmel

### December 8

**CE382 IDA/IUSD Academy of Continuing Education: Taking the Stress Out of Bonding—A Recipe for Success**  
Dr. K. William "Bud" Mopper, Winnetka, Ill.

## LOOKING AHEAD TO 1996

### March 2, 1996

**5th Annual Maynard K. Hine Scholarship Lecture and Dinner**

### March 29, 1996

**Taking the Mystery Out of Esthetics**  
Dr. Michael Miller, editor-in-chief for the Reality Publishing Company, Houston, Texas

### April 12, 1996

**Oral Cancer and Precancer Symposium**  
Dr. Susan Zunt, IU associate professor, Department of Oral Surgery, Medicine and Pathology, and associated IU oncologic medical and dental faculty

### April 26, 1996

**Practice Management for Future Growth and Success**  
Jennifer de St. Georges, Jennifer de St. Georges & Associates, Inc., Monte Sereno, Calif.

### 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

For more information about courses, fees, credits, and registration, write to: Dr. Donald E. Arens, director of Continuing Education, Indiana University School of Dentistry, 1121 West Michigan Street, Indianapolis, IN 46202-5186.  
call: (317)274-7782  
fax: (317)274-2419  
e-mail: ce@iUSD.iupui.edu

## Alumnus Jeffrey Platt Receives ACD Scholarship

Fort Wayne practitioner and teacher Jeffrey A. Platt (DDS'84) has received the fourth annual scholarship presented by the Indiana Section of the American College of Dentists. The award is part of the Maynard K. Hine Scholarship Lecture series, which the ACD co-sponsors with the IU School of Dentistry.

The event is named in honor of IUPUI Chancellor Emeritus and IUSD Dean Emeritus Hine.

This year's program, held at the dental school on March 4, was hosted by IU's Department of Restorative Dentistry, with guest speaker Dr. Kenneth J. Anusavice, a faculty member at the University of Florida, Gainesville. Dr. Anusavice, who holds a dental degree as well as a PhD in materials sciences and engineering, addressed three topics: "Preventive and Restorative Decision-Making in the '90s and Beyond," "Reducing the Risk of Restoration Failure," and "Metals, Metal-Ceramics, Ceramics, and Polymers for the 21st Century."

The Hine scholarship recognizes the research of IU faculty or graduate students. Dr. Platt is pursuing graduate studies part time in restorative dentistry. He also teaches part time in the dental education division at Indiana University-Purdue University Fort Wayne.

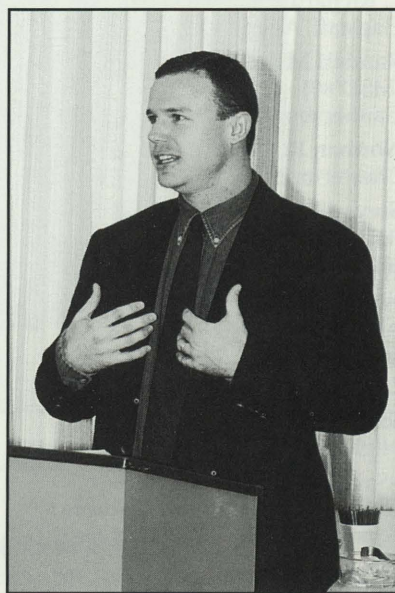
Dr. Platt used the \$1,000 award to travel to the annual session of the American Association for Dental Research, held in San Antonio, Texas, where he presented a research abstract entitled *Influence of Restriction Mold Type on Dentin Bond Strength*.

The ACD also presented a \$200 essay award to fourth-year dental student T. Ryan Jackson, of Greenwood. This annual competition calls for papers on the subject of ethics in dentistry. Mr. Jackson presented his paper at the meeting.

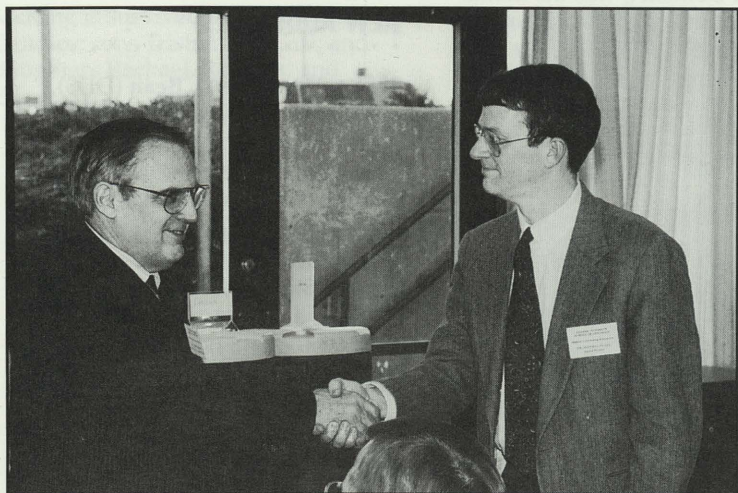
The fifth annual Hine Scholarship Lecture is set for March 2, 1996. Watch for details in the dental school continuing education calendar.



Honored guest Dr. Maynard K. Hine (seated) with, from left: keynote speaker Dr. Kenneth Anusavice and host department representatives Professor Emerita Marjorie Swartz and Dr. B. Keith Moore



Essay winner T. Ryan Jackson, of the DDS Class of '95, presents his paper entitled "Ethical Consequences of Healthcare Reform."



Scholarship recipient Dr. Jeffrey Platt (right) is congratulated by Dr. B. Keith Moore.



# Classes

## FELLOWS

International College of Dentists  
IU Grads Inducted October 1994  
New Orleans, La.

**Lehman D. Adams Jr.** (DDS'49)  
Indianapolis

**David L. Alexander**  
(DDS'73, MSD'75)  
Lafayette

**Dennis R. Bailey** (DDS'73)  
Princeton Junction, N.J.

**Patricia Humphrey Clark**  
(ASDH'74, DDS'80, MSD'86)  
Terre Haute

**Julian Elizabeth Gray**  
(ASDH'77, DDS'86)  
Greenwood

**L. Richard Haag** (DDS'66)  
Flagstaff, Ariz.

**Randall Masaki Kawamura**  
(MSD'80)  
Gaithersburg, Md.

**Norman R. Novak** (DDS'68)  
Chesterton

**Steven M. Patterson**  
(DDS'81, MSD'84)  
Indianapolis

**Robert D. Perry** (DDS'69)  
Crawfordsville

**William B. Risk** (DDS'64)  
Lafayette

**John A. Rosevear** (DDS'73)  
Highland

—Submitted by Jean R. Williams  
(DDS'69), Crawfordsville, Indiana's  
deputy regent for District 7 of the ICD.

## News from the 'Net

**Michael Joe Stohler** (DDS'82), of Anderson, now has a place in IUSD's *Alumni Bulletin* history: He holds the distinction of being the first alumnus to submit his classnotes electronically (responding to our invitation to do so in the preceding issue of the *Bulletin*).

Dr. Stohler is a self-described "computerphile" who purchased his first PC in 1984. For a time he ran his own bulletin board service known locally as PCHeaven. He looks forward to the day when exchanging patient records by computer is commonplace. "Patient data exchange via e-mail is still a great way off as every software program offered for dental use seems to have its own proprietary format," he writes. "I doubt that any two of us use the same camera system or file formats." Still, he's pleased to see an increasing interest in the world of online computerization, where he's been at home for more than a decade. "If all we can manage to do online for now is shoot the breeze about Hoosier basketball, it's more of a start than I've seen in 10 years!"

Dr. Stohler's online friends and colleagues can "write" to him at the following address: [mstohler@InterServ.Com](mailto:mstohler@InterServ.Com)

## FACTS FROM THE FIELD

**1969** • In ceremonies held at the Naval Dental Center, Great Lakes, Ill., on March 7, Captain **M. Thomas Barco Jr.** (DDS, MSD/prosthodontics '78) retired from the United States Navy Dental Corps. He has now entered the private practice of prosthodontics, sharing an office with Richard K. Shelly (DDS'69) at 219 East 17th St., Bloomington, IN 47408-3595.

**1986** • **James R. Geist** (MS/oral pathology), associate professor and chair of oral diagnosis and radiology at the University of Detroit Mercy School of Dentistry, was the dental faculty winner of the University's President's Award for Faculty Excellence in 1994. In the past two years he has also been named

Instructor of the Year by dental hygiene students and Outstanding Clinical Teacher by third- and fourth-year dental classes.

**1989** • **Steven F. Rodgers** (DDS, Certificate/oral and maxillofacial surgery '93)) has recently returned to his hometown and has opened his own practice. Address is Newburgh Oral & Maxillofacial Surgery, The Courtyard, Ste. B, P.O. Box 477, Newburgh, IN 47629; phone (812) 853-6168; fax (812) 853-6185.

**1993** • **Susan M. Cocquyt** (DDS) has entered into an associateship with **Bonni M. Boone** (DDS'88) at 734 E. Ireland Rd., South Bend.

## NEW ADDRESSES

**1951** • **Theodore D. Bean** (DDS), 10951 NW 60 Ln., Chiefland, FL 32626-9699

**1983** • **Joel S. Andre** (DDS), 1 Sugar Cliff Dr., Crawfordsville, IN 47933

**1986** • **Pierre Mackay** (MSD/prosthodontics), 3550 Côte des Neiges, Ste. 600, Montreal, Quebec, Canada H3H 1V4

**1990** • **Michelle (Brenneman) Ester-Bode** (ASDH/FW), 4341-6 Village Parkway Circle West, Indianapolis, IN 46254

**1994** • **Timothy J. Bussick** (DDS), 3452 Chelsea Circle, Ann Arbor, MI 48108

### A Word of Thanks from the Mallatts

We want to express our sincere gratitude to all of our friends and colleagues from the Indiana University School of Dentistry "family," including many of the school's alumni, for the tremendous outpouring of help and support during Kathy's sudden illness. Your prayers and thoughtfulness will be remembered forever. Thank you all so very much!

Mark E. Mallatt (DDS'75)  
and Kathy (Quill) Mallatt (ASDH'76)  
Plainfield

# Postdoc Profiles

## OBITUARIES

**1921 • Russell P. Veit (DDS)**, Indianapolis, died March 11, 1995. He was preceded in death by his wife, Elizabeth.

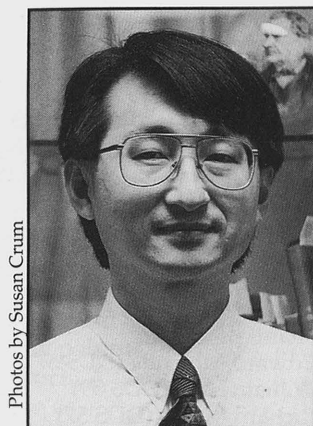
**1931 • George J. Goodman (DDS)**, Louisville, Ky., formerly of Indianapolis, died March 28, 1995. He is survived by his wife, Helen.

**1934 • Horace "Doc" Beaver (DDS)**, Indianapolis, died March 1, 1995. Dr. Beaver practiced dentistry for 58 years and was also an accomplished drummer, having performed with Hoagy Carmichael and the Paul Whiteman orchestra among others. He created dental displays for the Chicago World's Fair in 1933. Dr. Beaver is survived by his wife, Sally.

**1957 • Patrick F. Craven (DDS)**, Elkhart, died January 27, 1995. He is survived by his wife, Alice.

**1981 • David W. McKing (DDS)**, North Vernon, died in a tractor accident at his home on March 30, 1995. He had practiced in Versailles from 1986 to 1994 and had been planning to open a practice in Indianapolis. According to an article appearing in the *Indianapolis Star*, a tractor flipped over on Dr. McKing while he was pulling saplings on his property.

Dr. McKing was vice president of North Vernon's American Cancer Society and a member of the Jennings County 4-H Council. He was an Air Force veteran. Dr. McKing is survived by his wife, Candice; sons Tristan and Carl; and daughters Rachael, Rebecca, and Ellary.



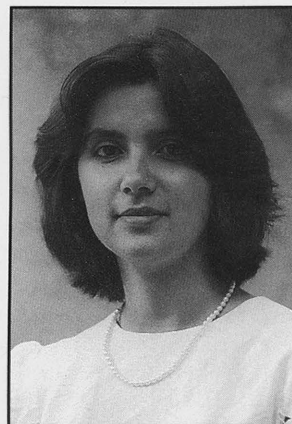
Photos by Susan Crum

## SHING-ZENG DUNG

HOMETOWN: Taipei, Taiwan, Republic of China; DENTAL EDUCATION: BDS, Yang-Ming University, 1985; IU POSTGRADUATE PROGRAMS: dental sciences and periodontics (majors), life science and oral pathology (minors); DISSERTATION: *Degradation of organic matrix components of human root dentin*; DEGREE/CERTIFICATE: PhD in dental sciences, June 1993, and certificate in periodontics, March 1995; PLANS: To accept a full-time position as associate professor in graduate periodontics at Yang-Ming University.

## E. ANGELES MARTINEZ MIER

HOMETOWN: Veracruz, Mexico; DENTAL EDUCATION: CD, Universidad Nacional Autonoma de Mexico, 1990; IU POSTGRADUATE PROGRAM: preventive dentistry (major), periodontics (minor); THESIS: *Preventive dentistry attitudes and actions in Mexico City: survey of private and institutional practice dentists*; DEGREE: MSD, February 1995; PLANS: To continue to study at IU as a PhD degree candidate in dental sciences.



## NORA NAJEEB TLEEL

HOMETOWN: Amman, Jordan; DENTAL EDUCATION: DDS, Marquette University, Milwaukee, Wis., 1992; IU POSTGRADUATE PROGRAM: pediatric dentistry (major), higher education (minor); THESIS: *Comparison of neodymium:yttrium, aluminum, garnet laser effects between primary and permanent enamel of disassociated teeth*; DEGREE: MSD, February 1995; PLANS: To return to Jordan to work as an associate with three general dentists.



# Northern Exposure

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

## A Word of Thanks from South Bend

Faculty, students, and staff of the Dental Education program at Indiana University South Bend wish to thank the following members of the North Central Dental Society, who have contributed a total of \$5,000 to the 1994-95 Dental Assisting Grant Fund for students at IUSB:

Robert Allen (DDS'46)\*  
B.J. Asdell (DDS'83)\*  
Douglas Bateman (DDS'72)\*  
Larry Beachy (DDS'59)\*  
Michael Beachy (DDS'84)\*  
Bonni Boone (DDS'88)\*  
Stanley Carr  
Terry Cunningham (DDS'80)\*  
James R. Davis II (DDS'73)  
Gary Drury (DDS'72)  
Brian Eberhart (DDS'84)\*  
M. Gilbert Eberhart (DDS'59)\*  
Donald Findlay  
William Gitlin (DDS'78)\*  
Wesley Good (DDS'42)  
Charles Hassel (DDS'67)\*  
H. Ray Hazen (DDS'80, MSD'83)  
Jane Heyde (DDS'82)  
Edward Lawton (DDS'53)  
John B. Lehman Jr. (DDS'74, MSD'76)\*

D.R. Lindborg (DDS'43)  
Vance Lopp (DDS'65)  
Terrance Mahoney (DDS'82)  
Shant Markarian  
Edward Molenda (DDS'57)  
William Mull (DDS'59)  
Richard Myers (DDS'57)  
Roger Pecina (DDS'77)  
John (DDS'37) and Marjorie Reuthe  
Robert Riddle (DDS'69)  
Wayne Risinger (DDS'53)  
Gregory Robbins (DDS'85, MSD'88)  
Larry Roberts (DDS'73, MSD'88)\*  
Paul Sergio (DDS'83)\*  
Robert Sriver  
John Stewart (DDS'76)\*  
Richard Strait  
Harvey Weingarten (DDS'79)  
Howard W. Wiesjahn II (DDS'80)\*  
Steve Wong (DDS'89)\*

Since 1990, 11 South Bend dental assisting students have been the beneficiaries of awards from this grant, which was established by the North Central Dental Society in 1986. It is unique in that it is the only dental society program of its kind directed toward supporting students of allied dental education at IU. The fund has been overseen by Dr. Charles Hassel of Bremen and Dr. Larry Beachy of Goshen.

Thanks is also extended to dentists in northern Indiana who recently have served as faculty practitioners for IUSB's dental assisting program. The names of faculty practitioners on the list above are marked with an asterisk. In addition, we appreciate the efforts of:

Thomas Allen (DDS'76)  
R.S. Austgen (DDS'73)  
Robert Barker (DDS'84)  
Douglas Barton (DDS'69, MSD'71)  
Bruce Benifiel (DDS'87)  
Michael Bigler (DDS'79)  
Matthew Brennan (DDS'89)  
Norman Bryan (DDS'73)  
Ronald Corley (DDS'72)  
Mark Corn (DDS'87)  
James Douglas (DDS'70)  
Rhett Fagg (DDS'74, MSD'76)  
D.F. Fishbaugh  
Michael Freid (DDS'71, MSD'74)  
Daniel Fridh (DDS'75)  
Michael Gasko (DDS'75)  
Nora Harmsen (DDS'84)  
John Harrington (MSD'71)  
David Harris (DDS'62)

Douglas Hazel (DDS'69)  
Greg Herbster  
Scott Hewitt (DDS'79)  
Kerry Knape (DDS'80)  
Timothy Kulik (DDS'76)  
Don McNamara (DDS'83)  
C. Wesley Magnuson (DDS'82)  
Mark Mihalo (DDS'87)  
G.R. Pippenger (DDS'70)  
Michael Rader (DDS'79)  
William Record (DDS'76)  
Charles Rosenbaum (MSD'63)  
G.C. Smith (DDS'61)  
Amy Sonneborn-Turnock (DDS'90)  
Thomas C. Stokes II (DDS'80)

*Submitted by  
Shant Markarian, Director  
Dental Education at IUSB*

**M**arthena J. Smith's relationship to Indiana University officially began in 1953, when she was hired as a dental assistant to Dean Emeritus Ralph McDonald (DDS'44), who was at that time director of Riley Hospital's dental clinic.

Unofficially, Marthena's IU ties extend back to a time well before her birth. When her mother, Velma Mendenhall, was a youngster in Jamestown, Ind., she attended grade school and played with a little friend who grew up to be a Hoosier legend: IU Chancellor Herman B. Wells, the university's president from 1938 to 1962.

The thought of those two children, now in their 90s, brings a warm smile to Marthena's face. On a summer-like afternoon in early March we visited Marthena at her home in Mooresville. She retired from her career last fall after serving the school with excellence for 42 years, including the past 20 years as a technician and supplies supervisor for the large basement laboratory.

She holds the distinction of being one of the longest employed full-time staff members in IUSD's history. (We know of only one other staffer who served a longer stretch—head cashier Gertrude Katzenberger, employed from 1916 to 1966.)

"I was extremely lucky to work with gifted and devoted teachers," Marthena says. In between her first position with Dr. McDonald and final position with the late Dr. L. Rush Bailey, Marthena worked at various times with surgeon Charles Hutton (DDS'52) and prosthodontists James House (MSD'71), Charles Goodacre (MSD'74), and the late Donald Cunningham (DDS'52, MSD'61). "I hope I made their jobs a little easier so that they could concentrate on doing what they did best: teach," she says. "I learned a lot from each of them."



In the 1960s Marthena also worked part time as a dental assistant in the private practices of surgeon Lehman Adams (DDS'49) and orthodontist LaForrest Garner (DDS'57, MSD'59). She was on duty the day Senator Edward Kennedy was ushered in for dental treatment after he cracked one of his front teeth on a limousine door while hurrying along the presidential campaign trail in April of 1968.

"Six Secret Service men in navy blue suits cleared out the entire building to secure it," Marthena recalls of preparations for the dental appointment. "We all stood in the parking lot until they allowed just the two practitioners and one assistant—me—to go inside." Drs. Adams and Garner treated the senator, who received a pin-reinforced resin to tide him over until he could see his own dentist.

Afterward Kennedy posed for a picture, offering to autograph it if Dr. Garner would send it to Washington once the film was developed.

Later on during Kennedy's Indianapolis visit he set aside his campaign speech to tell the crowd that America's civil rights leader Martin Luther King Jr. had just been assassinated. (Kennedy announced the shocking news just eight weeks before he himself met the same fate.)

Dr. Garner never found out if the photo reached the senator, who was shot in California on June 5 and declared dead the following day.

## **Handed a Challenge**

There was a time in the early 1970s when a debilitating disease threatened to cut Marthena's career short. She developed crippling osteoarthritis in both hands, a terrifying condition for a woman whose job at the time included pouring more than 2,000 dental models each year. Her

hands deteriorated swiftly, becoming badly swollen, misshapen, and extremely painful to the touch. A task as simple as grasping a door knob was soon beyond her.

But Marthena had the good fortune of being referred to James Strickland, MD, and began serving as a pioneering patient for this pioneering hand specialist. The renowned Dr. Strickland, who is founder of The Indiana Hand Center in Indianapolis and current president of the American Academy of Orthopaedic Surgeons, performed 10 surgeries on Marthena's

hands, replacing many of her joints with a synthetic material. As anyone who has known Marthena before and after the operations can tell you, the results were astonishing. Her hands eventually returned to normal in both appearance and function, and nearly two decades later they remain as lithe as they are lovely.

"Dr. Strickland's colleagues from all over the world who examined me were sometimes fooled by the work," Marthena remembers with pride. "They even had difficulty finding the incisions." Although this hereditary disease is apt to revisit Marthena, she is deeply

## **SHARING MEMORIES IN MOORESVILLE**

Marthena Smith looks back on more than four decades with the IU School of Dentistry



Susan Crum

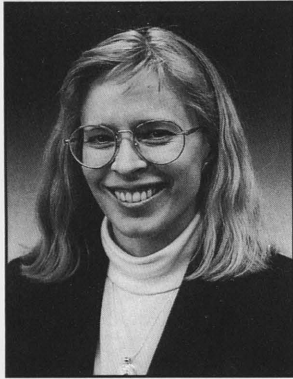
Marthena J. Smith at home in Mooresville

grateful that Dr. Strickland's expertise saved her from becoming disabled at the height of her career.

Now busy helping her ailing mother settle the estate of Marthena's stepfather, Ben Mendenhall, who died a few months ago, Marthena looks forward to moving into a new condominium that's being built on the edge of town, and having time once again to pursue one of her favorite hobbies—arts and crafts. She has taken home to Mooresville a lifetime of good memories from IU.



## ORAL BIOLOGIST JOINS FACULTY



Dr. Genevieve A.  
Barkocy-Gallagher

In October Indiana University School of Dentistry welcomed its newest member of the full-time faculty—Dr. Genevieve A. Barkocy-Gallagher, who was appointed as an assistant scientist in the Department of Oral Biology.

Dr. Gallagher is a 1992 graduate of the University of North Carolina's PhD program in microbiology and immunology. Her dissertation was a study of the properties of the signal peptide processing region of an exported protein in *Escherichia coli*. By manipulating the DNA encoding the protein and analyzing the resulting effects on processing, Dr. Gallagher identified several protein properties required for correct and efficient removal of the signal peptide. During her studies, Dr. Gallagher also served as a graduate teaching assistant in microbiology laboratory classes for pharmacy and nursing students.

Dr. Gallagher holds a degree in microbiology (BA'83) from Miami University in Oxford, Ohio, where she completed the general honors curriculum. After earning that degree she was employed for two years as a microbiology laboratory technician for the Procter & Gamble Co., Cincinnati, Ohio, followed by a year of graduate

studies at the University of Cincinnati in the Department of Microbiology and Molecular Genetics. She then transferred to the University of North Carolina.

During the two years preceding her arrival in Indianapolis, Dr. Gallagher pursued a postdoctoral fellowship in the biology department at IU's Bloomington campus. She worked in the laboratory of Dr. John Preer, professor emeritus, exploring the genomic DNA rearrangements that occur during the life cycle of *Paramecium tetraurelia*.

Dr. Gallagher's research has been published in the *Journal of Biological Chemistry* and in several other journals associated with her field. She is the recipient of a number of scholarships and academic honors and is a member of Phi Eta Sigma Honorary.

Her primary role at IU will be to establish molecular biology techniques in the laboratory of Dr. Marilyn Lantz, chair of oral biology. She will be responsible for the cloning of *Porphyromonas gingivalis* genes involved in adhesion of the bacteria, and establishing a high level expression system for the proteins in *E. coli*.

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## TWO DENTAL SCHOOL DEPARTMENTS MERGE

By a vote of the full-time IU School of Dentistry faculty members holding appointments in the Department of Surgery and Hospital Dentistry and the Department of Stomatology, an administrative merging of these two departments took place on April 25, 1995.

The newly formed group is titled the *Department of Oral Surgery, Medicine, and Pathology*.

The two former departments had been overseen by Mark E. Wohlford (surgery) and Associate Dean for Research George K. Stookey (stomatology), each in the capacity of an acting chair. Dr. Wohlford has been appointed to

serve as acting chair of the new department.

An assistant professor of oral and maxillofacial surgery, Dr. Wohlford joined the IU faculty in 1992. He is a graduate of a PhD program in pathology and a four-year oral and maxillofacial surgery certificate program at The Ohio State University. His dental degree was earned at the University of Iowa in 1985. Since his arrival at IU he has been helping the school establish a research program in molecular pathology.

The merger reduces the number of dental school departments to five. The other four are *Oral Biology*, chaired by Dr. Marilyn S. Lantz,

professor of oral biology; *Oral Facial Development*, chaired by Dr. W. Eugene Roberts, professor of orthodontics (School of Dentistry), of physiology and biophysics (School of Medicine), and adjunct professor of mechanical engineering (School of Engineering and Technology); *Periodontics and Allied Dental Programs*, chaired by Dr. E. Brady Hancock, professor of periodontics; and *Restorative Dentistry*, chaired by Dr. George P. Willis, associate professor of operative dentistry.



*All five of the Richmond children attended their mother's retirement reception on the IUPUI campus; four are pictured with her here, from left: Susan Boggs, Speedway; David Bauguess, Mentor, Ohio; Linda Newton, Indianapolis; and Marty Bauguess, Franklin, Tenn. Not pictured is Patty Judkins, Indianapolis.*

## A SALUTE FROM THE 'INSTITUTE'

### Jean Richmond puts the cap on an outstanding career at the Oral Health Research Institute

**A**s a youngster growing up in McLeansboro, Ill., Jean Richmond didn't lack for company. There were 10 kids in her family.

Today, as a retiree saying goodbye to a 34-year career at Indiana University, Jean continues to lead a life that is rich with people. She is the mother of five, and the "10 kids" in the family these days are her grandchildren.

Along the way Jean also has acquired what could be described as an extended family: her co-workers and good friends at IU, where she has served as budget coordinator for the Oral Health Research Institute since 1972. "I'm going to miss the people the most," she said when we spoke with her two days before her departure in March.

Jean worked for the U.S. Department of Treasury in Chicago and a uniform manufacturer in Evansville before she landed a job in Riley Hospital's dental clinic in 1961. "I was at Riley when John Mink (DDS'56, MSD'61) was in charge, and then I moved to orthodontics when Charles Burstone (MSD'55) was in charge," she recalled. Jean also had stints in

the dean's and business manager's offices before settling into the routine at OHRI 22 years ago.

Not that there's been much of a routine to settle into. In the last decade, the Oral Health Research Institute hasn't exactly been the picture of tranquility: There have been days when Jean and her colleagues have felt that they stood a better chance of outrunning an avalanche than keeping up with the spectacular growth of the institute's programs. Jean has seen IU's dental research funding, most of which goes to the institute, skyrocket since 1990 from less than \$3 million to more than \$8 million. Her purchasing duties were taken over by a new employee years ago so that she could keep up with other tasks, including the hiring of temporary medical and dental employees for the institute's many clinical studies. On the day of our visit the institute was in the process of recruiting 900 panelists for an upcoming project.

"I've had a marvelous 'eye on the world' from my office across from the screening and examining rooms," said Jean. She considers herself fortunate to have had an opportunity to work at IUPUI and

has loved working "on the fringe" with researchers whose accomplishments have helped advance the field of dentistry. "The campus has provided a wonderful environment full of interesting people," she said.

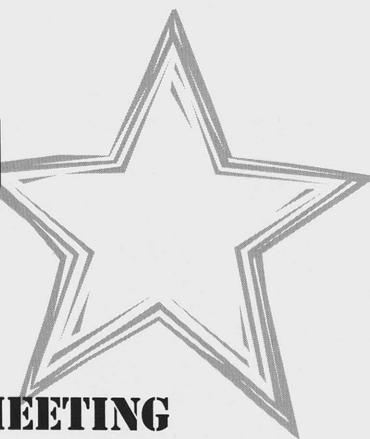
All of Jean's daughters have held jobs at IUSD, including Susan, who currently is employed in the clinical area at OHRI. In the 1970s Patty and Linda worked in dental school departments. Linda is married to Carl W. Newton (DDS'75, MSD'77), former chair of endodontics. From 1968 to 1981 Jean was married to Robert "Bob" Richmond, a longtime technician in the former complete denture department who died in 1986.

Letting go of a job she loves has been a bittersweet experience, but Jean isn't sorry to be leaving behind the roundtrip drive from Speedway every day, especially during the winter months when most of the trips were made in the dark coming and going.

She's looking forward to pursuing her post-retirement plans, which include hitting the road for some adventurous trips with a relative, refurbishing her home, and taking time to enjoy those 10 grandkids who are "growing up too fast."



# RESEARCH ROUNDUP



Abstracts presented at the AADR meeting were published in the Journal of Dental Research, Volume 74 Special Issue, March 1995 (JDR page numbers follow entries below). Presenters' names appear in bold-face print. The name of each presenter associated with the IU dental school also is followed by an asterisk and the person's title.

## CARIOLOGY

Indiana Oral Health Survey 1992-1993. **MARK MALLATT**,\* associate professor of preventive and community dentistry, B. BEISWANGER, C. SMITH, B. KATZ, L. TIMMERMAN, B. CHEETHAM, and R. McCLURE—page 191

Litter Effects in Rat Caries Studies. **JANICE WARRICK**,\* assistant director of the bioresearch facility at the Oral Health Research Institute (OHRI), L. MILLER, G. STOOKEY, and B. KATZ—page 47

Comparison of Fluoride Analysis by Acid Etch and Microdrill Techniques. **BRUCE SCHEMEHORN**,\* research associate at the OHRI, G. WOOD, and T. DOMKE—page 47

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Surface Ultrastructure of Human Enamel by Atomic Force Microscopy. **M. UEMURA**, M. KAMBARA, G. STOOKEY, and J. ARENDS—page 48

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Influence of Bonded Amalgam Restorations on Fracture Strength of Teeth. J. OLIVEIRA, **B. KEITH MOORE**,\* professor of dental materials, and M. COCHRAN—page 232

Influence of Dentin Primer Drying Time on Dentin Bond Strength. **MASASHI MIYAZAKI**,\* visiting scientist in restorative dentistry, J. PLATT, and B. MOORE—page 34

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Clinical Study of Type II Glass Ionomer as Occlusal Sealant. M. WINKLER, E. DeSCHEPPER, **JEFFREY DEAN**,\* assistant professor of pediatric dentistry, B. MOORE, N. EWOLDSEN, and M. COCHRAN—page 17

Some Mechanistic Observations on Water-Sorbed Dental Composite Resins. **YOSHIKI OSHIDA**,\* associate professor of dental materials, A. HASHEM, and R. ELSALAWY—page 185

Three-Year Clinical Trial Comparing Orthodontic Bracket Adhesives. **JAMES MILLER**,\* (DDS'81, MSD'88), L. MANCL, G. ARBUCKLE, J. BALDWIN, and the late R. PHILLIPS—page 74

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Interpretation of Chemical-Created Lesions Using Direct Digital Imaging. **BART TIRRELL**,\* (MSD/endodontics '94), D. MILES, C. NEWTON, and C. BROWN—page 91

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Effects of Collimation on RadioVisioGraphy Image Quality. **EDWIN PARKS**,\* assistant professor of dental diagnostic sciences—page 19

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Burning Mouth Syndrome: An Assessment of Therapeutic Efficacy. **A. WALKER**, P. FOTOS, D. MILES, and J. JAKOBSEN—page 116

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Sutural Expansion Using Rigidly Fixed Endosseous Implants. **DREW PARR**,\* an IU medical student, L. GARETTO, and W. ROBERTS—page 21

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IgG Proteolytic Enzyme Activity in Adult Periodontitis. **MICHELLE WITTNER**,\* of the DDS Class of '95, L. GFELL, and R. GREGORY—page 55

Serum and Salivary Total IgA Levels in HIV-1 Seropositive Individuals. **NED WARNER**,\* a PhD candidate in the medical school's pathology department, and R. GREGORY—page 171

Immunological Characterization of *Streptococcus mutans* Fimbriae. **MARIANELLA PERRONE**,\* former visiting scientist in oral biology, L. GFELL, and R. GREGORY—page 201

Collagen Adhesin of *Streptococcus mutans*—Biochemical Characterization. **LECH SWITALSKI**,\* associate professor of oral biology sciences, and J. LAWRY—page 201



Mike Halloran  
Russell McCabe

## Congratulations

**Hats Off to Hatton Award Winner.** Second-year IU dental student Russell McCabe is one of nine young researchers in the U.S. who soon will be packing up for Singapore, where they will join other competitors around the world for a chance at earning the prestigious Edward H. Hatton Award, presented to pre- and postdoctoral students by the International Association for Dental Research. The award, which is designed to recognize students who exhibit potential for a productive career in dental research, will be presented this summer at the 73rd IADR general session.

Russell earned his place among the international competitors by having won an American Association for Dental Research Hatton Award for Junior Investigators at the annual meeting in San Antonio. His AADR poster presentation was entitled *Nuclear matrix-intermediate filament proteins distinguish human osteoblasts from osteosarcomas*. His prize is an expense-paid trip to the final competition, held in Singapore June 28-July 1.

Indiana University was proud to have had two students among only 20 researchers in the country who made it into the national Hatton competition. In addition to Mr. McCabe, Dr. Vanchit John, a master's degree candidate in periodontics, was eligible for his AADR poster presentation entitled *Regulation of osteoclast differentiation by CD8+ T-lymphocytes in vitro*.

Please join us in wishing Russell McCabe "good luck" in the final round. Top prize (\$500 and a plaque) will be presented in Singapore.

Sterilizing the Inside of Handpieces. **CHRIS MILLER**,\* professor of oral microbiology and of microbiology and immunology, S. RIGGEN, D. GAINES, and M. SHELDRAKE—page 153

Effects of Sterilization on the Physical Properties of Dental Casts. **JUDITH WASKOW**,\* (DDS'94), C. PALENIK, J. SETCOS, B. MOORE, C. MUNOZ-VIVEROS, and C. MILLER—page 152

## MINERALIZED TISSUE

Nuclear Matrix-Intermediate Filament Proteins Distinguish Human Osteoblasts from Osteosarcomas. **RUSSELL McCABE**,\* of the DDS Class of '97, H. FEISTER, J. HOCK, and J. BIDWELL—page 179

Regulation of Osteoclast Differentiation by CD8+ T-lymphocytes In Vitro. **VANCHIT JOHN**,\* a master's degree candidate in periodontics, J. HOCK, A. GLASEBROOK, and R. GALVIN—page 179

Characterization of SV40 Immortalized Human Bone Marrow Cells. **KEVIN HADDLE**,\* of the DDS Class of '96, J. HOCK, M. VEUGOPALAN, D. WILLIAMS, and R. FUCHS-YOUNG—page 119

Effect of Chronic Fluoride Exposure on Bone Strength in Uremic Rats. **CHARLES TURNER**,\* of IU's orthopaedic surgery faculty, W. ZHANG, M. WILSON, C. WILSON, and A. DUNIPACE—page 118

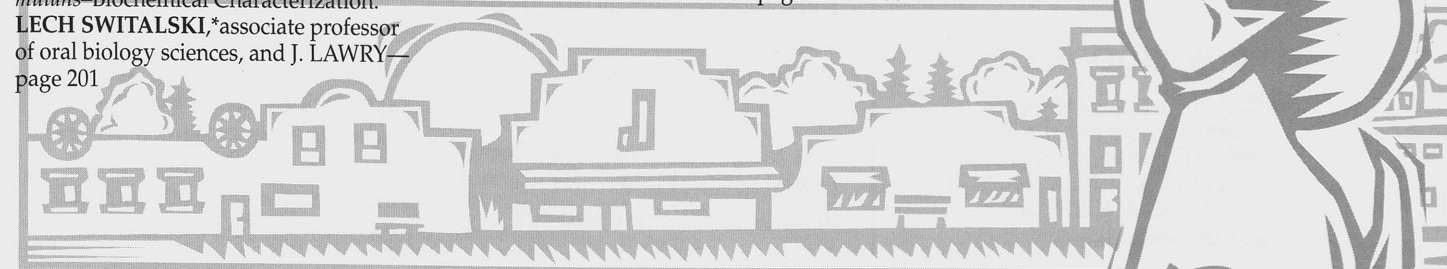
## ORAL/DENTAL HYGIENE

Screening Test of Antimicrobial Activity of a Brushing Gel. Y. LI, **MATTHEW MARTIN**,\* of the DDS Class of '98, and T. NOBLITT—page 24

## PHARMACOLOGY/THERAPEUTICS/TOXICOLOGY

Effect of Hypoxia on Amelogenesis in Fluoride-Treated Rats. **WU ZHANG**,\* dental research technologist at the OHRI, L. MILLER, M. WILSON, A. TUCKER, A. KAFRAWY, and A. DUNIPACE—page 133

Pharmacological Effect of Chronic Fluoride Exposure on Uremic Rats. **MARIE WILSON**,\* research technician at the OHRI, C. WILSON, W. ZHANG, L. MILLER, and A. DUNIPACE—page 133



Biological Effects of Fluoride Exposure from Coal-Burning. **GEORGE STOOKEY**,\* professor of preventive and community dentistry, Y. LI, C. LIANG, B. KATZ, E. BRIZENDINE, S. CAO, and S. NIU—page 134

Effect of Various Concentrations of Fluoride on Human Cell Proteins. **MARCIA MOTTA**,\* a PhD candidate in dental sciences, Y. LI, T. NOBLITT, and G. STOOKEY—page 134

Nicotine-Induced Changes in the Mouse Fibroblast. **M. LOVE, JAMES McDONALD JR.**,\* professor of preventive and community dentistry, T. NOBLITT, Y. LI, J. SCHOKNECHT, and B. OLSON—page 60

Fluoride Exposure from Coal-Burning and SCE Frequency in Lymphocytes. **YIMING LI**,\* associate scientist at the OHRI and adjunct associate professor of pharmacology and toxicology, C. LIANG, B. KATZ, and G. STOOKEY—page 133

Fluoride Effects on Blood Chemistry. **R. JACKSON, SUE KELLY**,\* assistant director of clinical research at the OHRI, T. NOBLITT, W. ZHANG, Y. LI, G. STOOKEY, and B. KATZ—page 134

Fluoride Effects on Sister Chromatid Exchange. **RICHARD JACKSON**,\* research associate at the OHRI, S. KELLY, T. NOBLITT, W. ZHANG, Y. LI, G. STOOKEY, and B. KATZ—page 134

Correlation of Fluoride Levels in Human Plasma, Urine, and Saliva. **ANN DUNIPACE**,\* associate scientist at the OHRI, S. KELLY, M. WILSON, W. ZHANG, S. DENZINGER, and E. BRIZENDINE—page 134

Antibiotic Use in Dental Practice. **MARILYN LANTZ**,\* professor of oral biology (abstract did not appear in JDR)

Inhibition of Plaque Glycolysis and Regrowth after Rinsing with Scope and Listerine Mouthwash. **S. HUNTER-RINDERLE, J. HULL, B. BOLLMER, B. SCHEMEHORN, G. OSTERBUR-CHILDERS, and K. PARK**—page 253

Rat Calculus Model Predicts Clinical Efficacy. **LINDA MILLER**,\* clinical research technician at the OHRI, J. WARRICK, B. BEISWANGER, M. MAU, H. PFEIFFER, S. ROSENFELD, G. STOOKEY, and B. KATZ—page 209

## PROSTHODONTICS

Effect of Finish Line Design on Fracture of Dicor Crowns. **THOMAS SMITHY**\* (Certificate/prosthodontics '91), C. GOODACRE, C. MUNOZ-VIVEROS, C. ANDRES, and B. MOORE—page 177

**H**e bounded toward the lectern—all 187 pounds and 3.5 trillion cells of him—with an enthusiasm and confidence that gave us reason to suspect this was no ordinary speaker.

It wasn't.

"I love research!" respected scholar and molecular biologist Harold C. Slavkin said with exuberance as he opened his keynote discussion of science, education, and clinical dentistry in the 21st century. He then spent a fascinating, fast-paced 45 minutes telling us why.

Dr. Slavkin, the George and Mary Lou Boone Chair in Craniofacial Molecular Biology at the University of Southern California, Los Angeles, was on campus to participate in the dental school's third annual Research Day, held for faculty, staff, students, and alumni at the University Place Conference Center on March 27.

Dr. Slavkin's devotion to research has played out on a number of high-profile stages. For six years he has directed USC's Center for Craniofacial Molecular Biology, where he and his colleagues are focusing their efforts on identifying, characterizing, and understanding genes that control the formation of the human face. Dr. Slavkin is immediate past president of the American Association for Dental Research (AADR), and, in July of 1995, he will assume the directorship of the National Institute of Dental Research, replacing Dr. Harald Løe.

A longtime faculty member at USC, Dr. Slavkin earned his dental degree there and is a

graduate of USC's postdoctoral program in biochemistry as well. He also completed a postdoctoral program in anatomy at the University of California's School of Medicine in Los Angeles. A prolific author, Dr. Slavkin has contributed 175 publications to peer review journals and 90 chapters to textbooks.

And, he is a captivating speaker who sprinkled his discussion of genetics with personal anecdotes. (In addition to sharing with us his weight and cell count, Dr. Slavkin told us that his body contains enough linear DNA to stretch from IUPUI to the moon and back.)

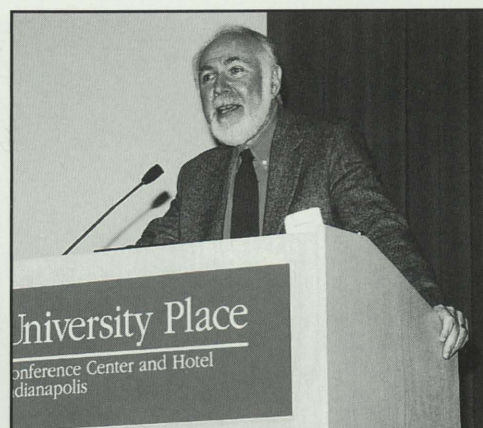
We are living in the midst of a biological revolution, said Dr. Slavkin, explaining that in the 1970s, genes were discovered and sequenced at a rate of about one per year. Now, about 4,000 genes are being entered into the international genetic database each week. A total of 100,000 genes have been found in the human genome.

Gene studies hold great promise and opportunity for many fields, including dentistry. Dr. Slavkin cited anticancer therapeutics for oral malignancies, synthetic saliva, gene therapy for xerostomia, and regeneration of cartilage, bone, and enamel as just a few of the many areas in which oral health-care is expected to benefit from the use of recombinant DNA technology.

And not a moment too soon. "The baby boomers are turning 50 next year," he said, "and their expectations about health are higher than ever before. By the year 2000, 18 percent of all Americans will be 50 years of age or older. The biomedical



*IUSD welcomes Harold Slavkin to its  
third annual Research Day*



*Harold Slavkin*

# Unraveling Life's Mysteries

community is trying to provide a scientific basis to meet their expectations."

Complementing Dr. Slavkin's dynamic presentation were about 90 posters and table clinics presented by IU faculty, staff, and students and covering a wide array of topics. An awards program recognized the top presenters (see list at right). A host of exhibitors representing dental manufacturers and other companies rounded out the program.

This year's Research Day was led by Dr. Richard Gregory, president of the Indiana Section of the AADR. The School of Dentistry is grateful to Bisco Dental Products, Inc., of Itasca, Ill., and the Wm. Wrigley Jr. Company, of Chicago, Ill., for serving as the primary program sponsors. ■

## Recognizing Excellence

### Research Day Awards 1995

#### —FACULTY—

*The IUSD Alumni Association's  
Distinguished Faculty Award for  
Research to*

#### **MARK SAXEN**

Assistant Professor of Dental  
Diagnostic Sciences  
Department of Oral Surgery,  
Medicine, and Pathology

*Distinguished Faculty Award for  
Teaching to*

#### **DON-JOHN SUMMERLIN**

Associate Professor of Oral  
Pathology  
Department of Oral Surgery,  
Medicine, and Pathology

#### —NON-ACADEMIC STAFF—

*John O. Butler Company's Staff Awards  
for Research Excellence to*

#### **JAMIE SWAN**

Senior Research Technician  
Oral Health Research Institute  
1st Place for Poster:  
"Identification of Mutations of the  
p53 Gene in Oral Carcinomas"  
(co-researchers Drs. Mark Wohlford,

James Hartsfield, and Don-John  
Summerlin)

#### **WU ZHANG**

Research Technologist  
Oral Health Research Institute  
2nd Place for Poster:  
"Effect of Hypoxia on Amelogenesis  
in Fluoride-Treated Rats"  
(co-researchers Linda Miller, Marie  
Wilson, and A. Tucker; and Drs.  
Abdel Kafrawy and Ann Dunipace)

#### —GRADUATE DENTAL STUDENT—

*Procter & Gamble Co. Maynard K. Hine  
Award for Excellence in Dental  
Research to*

#### **HWAI-NAN CHANG**

Master's Degree Candidate in  
Orthodontics  
Department of Oral Facial  
Development  
for Poster:  
"Effect of Angiogenic Growth Factor  
on Orthopedically Expanded Suture"  
(co-researchers Drs. Lawrence  
Garetto, Rosario Potter, Thomas  
Katona, and W. Eugene Roberts)

*Awards continued next page*

Research Day  
award recipients,  
back row, from left:  
Russell McCabe,  
Edward Sammons,  
and Tod Curtis;  
second row: Dr.  
Hwai-Nan Chang,  
Annette McNew,  
Lynn Bates,  
Jennifer Perry, and  
Julie Hardwick;  
third row: Dr.  
Mark Saxen,  
Michelle Wittler,  
Meggin Hesler,  
Lori Perkins, and  
Wu Zhang; front  
row: Tressica  
Harvey, Rachael  
Watkins, Tambra  
Allbright, and  
Jamie Swan. Not  
present is Dr.  
Don-John  
Summerlin.

Photos by Mike Halloran



### —PREDOCTORAL DENTAL STUDENTS—

The IUSD Research Committee's  
Cyril S. Carr Research Scholarship to

**RUSSELL McCABE**  
2nd Year Student

Indianapolis District Dental Society's  
Jack D. Carr Award to

**MICHELLE WITTLER**  
4th Year Student

for Poster:  
"IgG Proteolytic Activity in Adult  
Periodontitis"  
(co-researchers Linda Gfell and Dr.  
Richard Gregory)

Procter & Gamble Co. Award  
for Excellence in Preventive Oral  
Health Care to

**EDWARD SAMMONS**  
4th Year Student

for Poster:  
"Remineralization and Demineral-  
ization of Enamel Lesions Monitored  
by Use of the Vital Dye, Calcein  
Green"

American Dental Association/Dentsply  
International Student Clinician Awards  
to

**RUSSELL McCABE**

2nd Year Student

1st Place for Poster:

"Nuclear Matrix-Intermediate  
Filament Proteins Distinguish  
Human Osteoblasts from  
Osteosarcomas"  
(co-researchers Drs. H. Feister, Janet  
Hock, and Joseph Bidwell)

**TOD CURTIS**

2nd Year Student

2nd Place for Poster:

"Effects of Histogram Modification  
Techniques on Diagnostic Quality of  
Radiographs"  
(co-researchers Drs. Mostafa  
Analoui, Dale Miles, and Edwin  
Parks)

### —STUDENTS OF ALLIED DENTAL PROGRAMS—

IUSD's Best Dental Hygiene Table  
Clinic Award to

**LYNN BATES, JULIE HARDWICK,  
ANNETTE McNEW, and JENNIFER  
PERRY**

2nd Year Students  
"Smoker's Roulette"

Procter & Gamble Co. Dental Hygiene  
Table Clinic Award to

**LORI PERKINS and MEGGIN  
HESLER**

2nd Year Students  
"Fluoride in Preventive Dentistry"

IUSD's Best Dental Assisting Table  
Clinic Award to

**TRESSICA HARVEY, RACHAEL  
WATKINS, and TAMBRA  
ALLBRIGHT**

"To Bleach or Not to Bleach"



A black and white photograph of a room with a grid of arched windows. In the foreground, there is a round table with a lamp on it. The room appears to be a library or a study.

# *Bloomington Beckons*

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