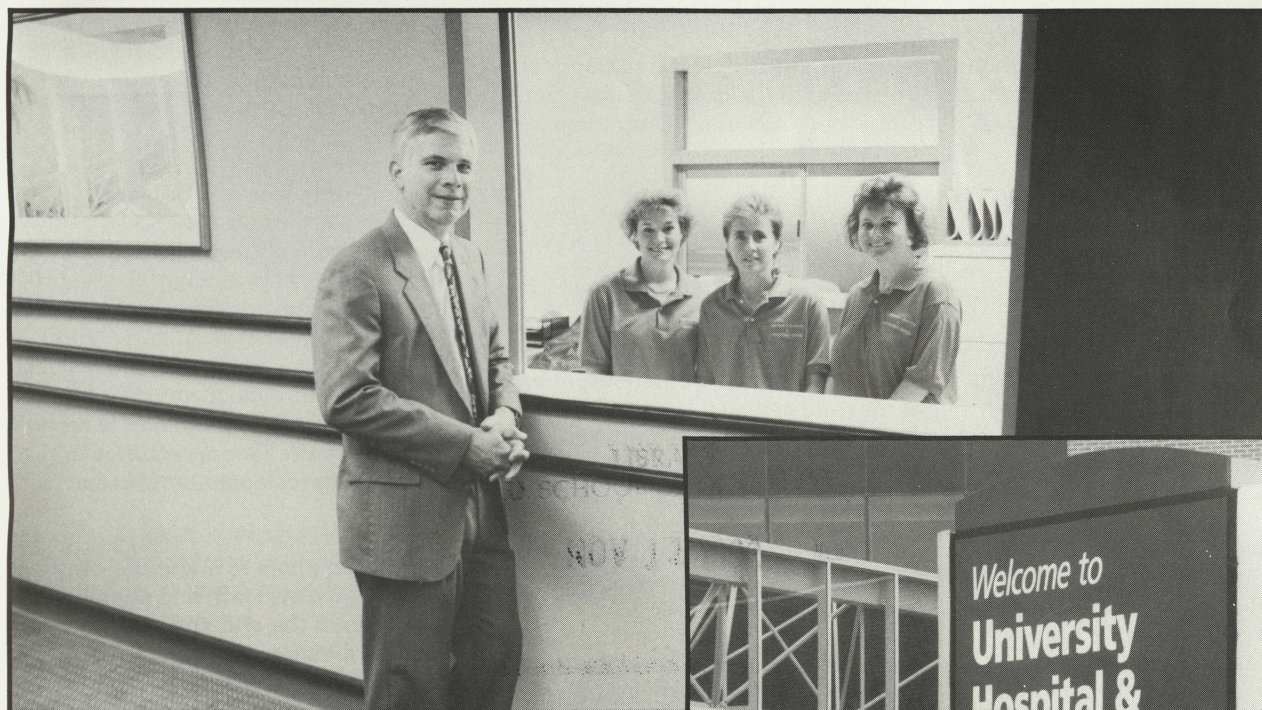
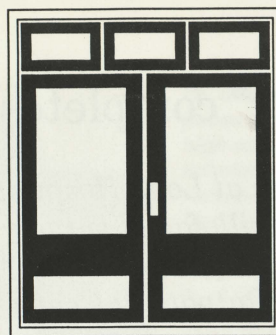


INSIDE PASSAGES

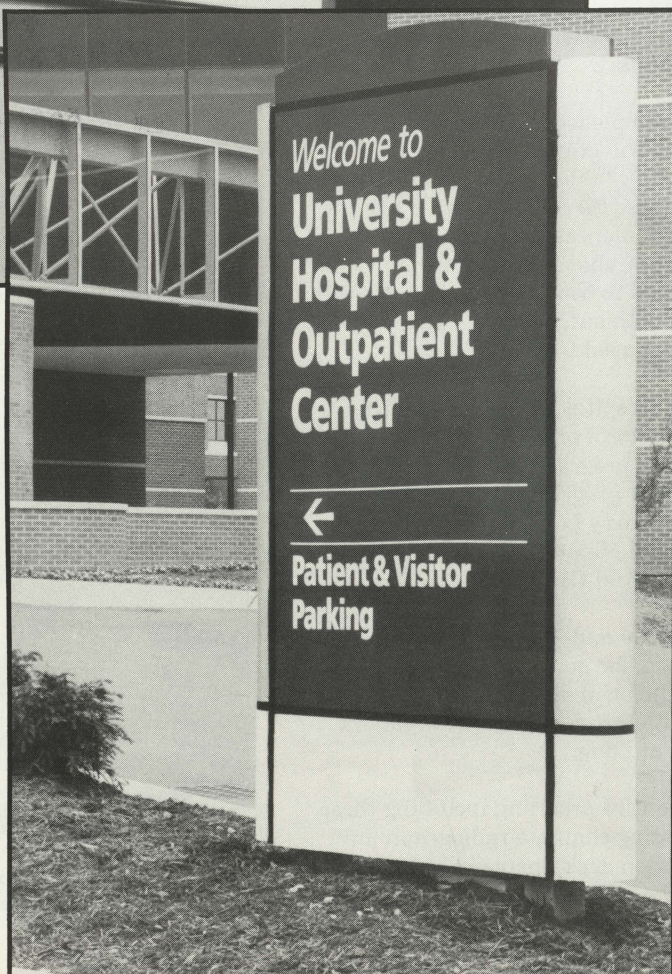
Indiana University School of Dentistry Newsletter • Volume 7, Number 2, 1992



The Long Good-bye

IUSD's oral and maxillofacial surgery hospital residency program moves from its long-time "home" at Long Hospital to the new Outpatient Center on campus

Dr. Charles Nelson, chair of oral and maxillofacial surgery, in the new facility with (from left) dental assistant Rita Snoddy, administrative secretary Tracy Evans, and secretary/pharmacy coordinator Rhonda Gregg. (Photos by Mike Halloran)



"Surgery" completes move to new center

After decades at Long Hospital, the school's hospital-based oral and maxillofacial surgery program joins other outpatient services on campus in a move to the medical center's recently constructed Outpatient Center

a visitor walking into the new oral and maxillofacial surgery facility in the recently opened Outpatient Center at University Hospital would be apt to describe it as bright, airy, comfortable, and modern.

Dr. Charles L. Nelson, IU's chair of oral and maxillofacial surgery, also would use those words to describe the clinic that he and his hospital-based staff and residents moved into last May. From his unique perspective as director of the oral and maxillofacial surgery internship-residency program, however, Dr. Nelson points out other improvements over the program's former quarters at Long Hospital that are less obvious to the casual observer: highly efficient use of space, greater privacy for patient care, a full complement of state-of-the-art patient monitoring devices in every operatory, the addition of a postoperative recovery room for patients and office space for residents.

"We are pleased with our new facility, and proud of it," Dr. Nelson said recently. "Like any other kind of move, of course, there have been a few inconveniences. We found, for instance, that the sinks were too small and had to be replaced. It's beginning to smooth out, though, and everybody's getting used to the building."

Long Hospital was the site of this postdoctoral oral and maxillofacial surgery program for several decades (another program, under the direction of Dr. Larry L. Graham, is located at Wishard Memorial Hospital and Regenstrief Center).

Until the mid-'70s Dr. Charles E. Hutton, former chair of oral and maxillofacial surgery, managed the hospital program in the outpatient wing at Long.

"His entire program, including three operating chairs, a radiograph unit, reception desk, instrument 'room,' and private office were all located in one

room," Dr. Nelson recalled. "In 1975 the program moved into five rooms on the second floor, and that's where it stayed until this recent move." (A 1979 graduate of Dr. Hutton's resident training program, Dr. Nelson joined IU's oral and maxillofacial surgery faculty in 1982 and was appointed chair when Dr. Hutton retired.)

Although Long Hospital is closer in proximity to the dental school than University Hospital's Outpatient Center—which made Dr. Nelson's frequent trips to the school's Department of Oral and Maxillofacial Surgery very convenient in the past—he has happily traded the two-minute walk from Long for an opportunity to move his program into the contemporary new facility, where all of the medical center's other outpatient clinics and services are now located. He won't miss Long's painted cement block walls, steam radiators, and noisy window air conditioners. "I used to have to turn the air conditioner off so I could hear to talk on my office telephone," Dr. Nelson noted with a laugh.

An open house was held for the public to celebrate the new 980,000-square-foot, four-story Outpatient Center on

May 16 and 17. The center houses a multitude of diagnostic and therapeutic services including those offered by an Alzheimer's center, a pain clinic, and a center that addresses women's health problems.

The facility for the hospital-based oral surgery program isn't the only thing new about the oral surgery department this summer. Dr. Nelson is equally pleased to report that renovations to the dental school's predoctoral clinic are now completed as well. The second-floor clinic may not look different at a glance, but closer inspection reveals that the department's 10 dental chairs—all nearly two decades old—have each been replaced by a new dental unit. New cabinets and track lighting also have been installed.

The oral surgery department heads into fall semester well prepared to provide a full range of services to its patients in facilities that rank among the finest in the country. The school-based program schedules more than 6,000 patient visits annually. The hospital-based program scheduled more than 3,000 annual appointments in the past, but this figure is likely to increase since there are four operatories in the new facility (compared to three at Long).

Dr. Nelson plans to invite the dental school's faculty, staff, and students to a reception in the oral and maxillofacial surgery division of the Outpatient Center in September (watch for details in the September issue of the dental school's calendar, *Coming Up*).



Mike Halloran

Fourth-year oral and maxillofacial resident Dr. David L. Hayhurst with visitors in a reception area for oral and maxillofacial patients in the Outpatient Center



Mike Halloran

Dr. Garner (fourth from left) poses with the NIH summer high school research scholars, standing from left: Gabriel Jackson and Crystal Lee (Ben Davis); Sarah Floyd (Broad Ripple); Nicole Washington (Arsenal Technical); Lesley Wilson (Warren Central); and Jamal Flowers (Lawrence Central). Seated, from left: Lukeysha Golden (Howe); April Keaton (Broad Ripple); Toiya Crump (Washington High School, Soul City, North Carolina); and Angela King (Brebeuf Preparatory). The group joined their research mentors for a luncheon on August 7. Other guests included James Albright, science director for Northwest High School; and Dr. Wendell McBurney, IU's dean of research and sponsored programs.

Report by
Ric Burrous
IUPUI Media Relations

Teens swap summer beaches for laboratory beakers

Faculty mentors create wealth of research opportunities for high school fellowship recipients

Most young high school students spend their summers looking for fun. Jamal Flowers spent his looking through a microscope.

Jamal is one of 10 young men and women who took part in the School of Dentistry's Minority High School Student Research Apprenticeship Program, an eight-week project exposing the students to the world of scientific research.

"The idea behind our program is to give these young people a chance to learn about independent research and provide them with an entry in the type of math and science classes they'll face when they go to college," said Dr. LaForrest Garner, the dental school's associate dean for minority student services and head of the four-year-old project.

Students spent the first two weeks blending lectures and seminars with lab work, then the last six working one-to-one with their mentor on specific

research projects ranging from bone implants to cell mitosis to studying the effects of smokeless tobacco on the gums.

"It's a lot of work, but it's fun and educational," said Jamal, who is a senior at Lawrence Central High School this fall. "It's always fun to learn new things and they've shown us so much."

The participants earned \$1,650 for their work, which included being in the classrooms and labs at the School of Dentistry from 8 a.m. to 5 p.m. weekdays during the eight-week term. At program's end, the students turned in a report on their experiences.

So did James Albright of Northwest High School, who teaches chemistry and joined the project when the dental school received additional funds from the National Institutes of Health in the grant for the 1992 program.

"We wanted to get a teacher involved

because we wanted them to share in the experience," said Dr. Garner. "One of the things NIH likes about our program is that it is a good way to recruit students for science and math careers. We all felt that bringing a teacher in would help in the recruiting effort."

Mr. Albright's own experiences made him a willing volunteer in the recruiting effort. "I'm just amazed at the things the kids have been working on, and the equipment they've gotten to use," he said. "The information I've gathered in the lectures and the labs have shown me a lot of things we need to be teaching to prepare our students for college."

Dr. Lawrence Garetto, an orthodontic faculty member and one of the mentors, likes the exposure the program gives to students who might not otherwise give careers in math or science a second thought.

"We have a major need for people to

pursue these careers," Dr. Garetto said. "There are more opportunities in the field than ever before, in academics and industry and government. And there aren't enough young people to fill them."

Mr. Albright entered the project with preconceived notions about the dental school, but said those ideas didn't survive long.

"I thought all they did was train people to be dentists and assistants and technicians," he said. "I had no idea that they did so much research, that they were involved in so many fascinating things. That's one idea I hope to impress on both my fellow teachers and my students."

He also hopes to establish closer ties with the dental school.

"I would like to get people from the dental faculty to come to our school and the other Indianapolis Public Schools (IPS) to give kids a glimpse of what the school has to offer," Mr. Albright said.

Dr. Garner shares that goal.

"If we can establish closer ties with IPS, we'll be able to attract more young men and women into fields that are based on math and science," said the

associate dean. "That's good for all of us. And we hope that when they see what we have to offer here at the dental school, they'll want to come here, which will help us."

Jamal Flowers is convinced. The son of an Eli Lilly Company employee, he hopes to become a dentist with his own practice and is strongly considering IU for his professional training.

"Before the program, I'd never had a chance to come to the school and see all the things that are available," he said. "People here get to work on interesting projects with companies or with NASA—all kinds of things that would be fun to study."

That fascination on the part of the students is the best reward for the mentors, said Dr. Garetto.

"What makes working with these kids so worthwhile is their willingness to learn," he said. "They start the program with little or no knowledge of the subject of their research. But when the eight weeks are up, they have a thorough understanding of their particular project and what their results mean. They've learned how to think in scientific terms—analyzing a problem, then finding a way to study it and learn more."

IUSD curriculum gets fine-tooth comb treatment at meeting

The final all-faculty conference to be held before the American Dental Association's accreditation team performs its on-site review this fall took place at University Place Conference Center on June 2.

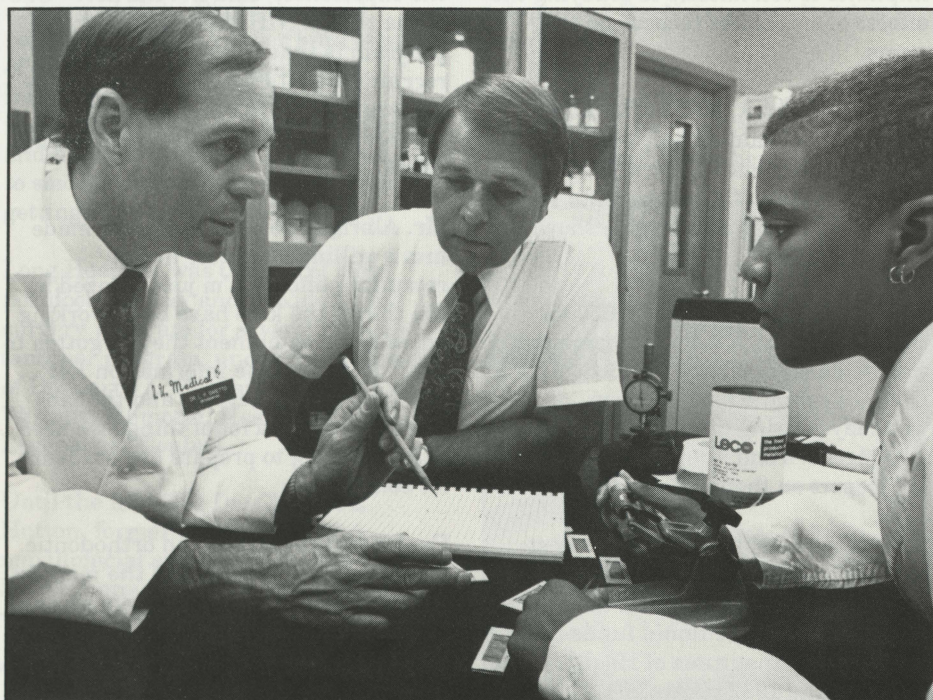
Before the faculty divided into workshops to continue their ongoing assessment of the school's clinical, lecture, and laboratory courses, Dr. Thomas F. Razmus, assistant professor of dental diagnostic sciences, presented results of an in-depth review of randomly collected patient records undertaken over a three-year period by the IUSD Chart Audit Committee. He said that the school's new comprehensive care program will make it possible to improve record-keeping assessment methods that will lead to uniformity of record preparation throughout the school. An ongoing chart auditing system is being designed and will be introduced into the clusters very soon.

Dr. Paul E. Reifeis, assistant professor of operative dentistry, presented a discussion of patient records from his unique perspective as a dentist with a law degree. Meeting the challenge of preparing a thorough and accurate history of patient care is especially critical at the dental school, he said, since a typical chart contains written information from dozens of people—many of whom are no longer at the school. Applying an attorney's point of view, Dr. Reifeis reviewed several key elements of a well prepared patient record.

A new component added to this faculty conference was a panel of student leaders, who offered their opinions of IU's dental curriculum and teaching methods.

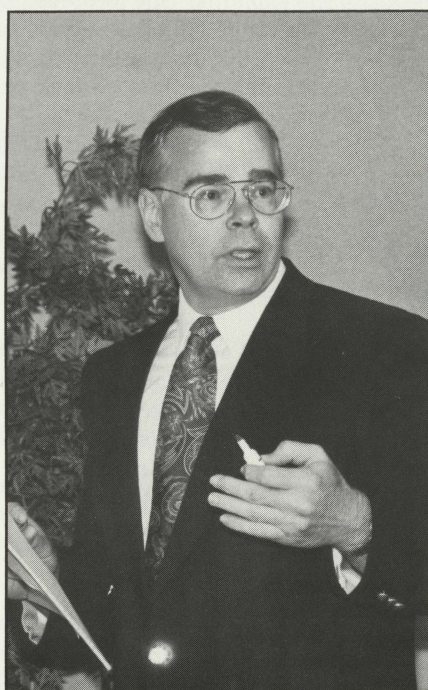
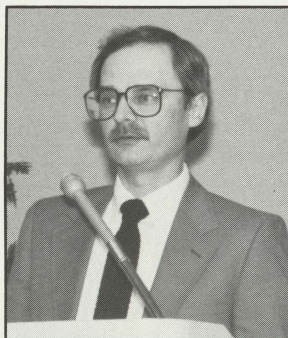
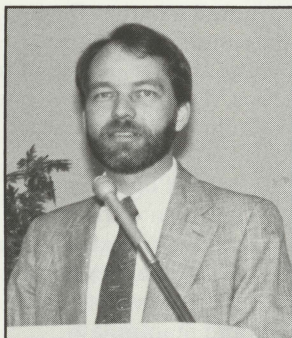
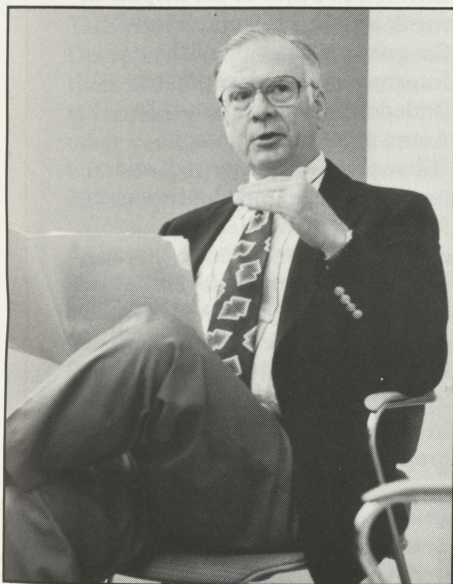
Formal assessments of all individual courses and departments were submitted by the faculty two weeks after the conference and have been appended to the school's accreditation report.

The ADA accreditation team will complete its review of IUSD during the week of October 26.



Rick Baughn

Lawrence Central High School student Jamal Flowers (right) discusses his research project with IUSD faculty mentor Lawrence Garetto (left) and Northwest High School science director James Albright.



IUSD Summer Conference

Taking care of business



TOP PHOTO: Third-year dental student Tony Ratliff (center) offers a predoctoral point of view on the curriculum while faculty and classmate Denise Flanagan (on Tony's left) listen. In the photos directly above (left to right) are program participant Cecil Brown; Paul Brakke, new executive director of the Indiana Dental Association who was introduced to the faculty by Dean Gilmore; and program speakers Thomas Razmus and Paul Reifeis. In the photos at right are workshop participant Charles Goodacre (holding chalk) and second-year dental student panelists Joseph Gregg and Lana Stoll.

Conference photos by Susan Crum

Second-year dental hygiene students **Penny Anderson** and **Stephanie A. Stafford** were each awarded a scholarship from Theta Chapter of Sigma Phi Alpha dental hygiene honor society. The scholarships, given at the end of spring semester 1992, are awarded in part for academic achievement and leadership skills.

Carole A. Busch, IUSD coordinator of records and admissions, has been appointed by Dean H. William Gilmore to represent the dental school on a newly established campus-wide student recruitment committee, which was proposed by Alan N. Crist, director of undergraduate admissions for IUPUI.

Dr. Michael A. Cochran, chair of operative dentistry, was recognized by the National Naval Dental Center in Bethesda, Maryland, for his exceptional contributions to the center's academic and research programs. The award was presented during graduation ceremonies in Bethesda on June 12.

Results of recent elections held by the second-year dental hygiene class are as follows: *president*—**Cynthia L. Spyker**; *vice president*—**Nicole R. Hicks**; *secretary*—**Jennifer S. Lane**; *treasurer*—**Tracy L. Hobbs**; and *Student Affairs Council representative*—**Belinda D. Kirby**. Officers of the Student American Dental Hygienists' Association for 1992-93 are Ms. Spiker as president and **Kitty Smith** as treasurer.

Dr. Carl W. Newton, chair of endodontics, has been asked to join the Scientific Advisory Panel of the *Journal of Endodontics*.

The dental school welcomes **Dr. Yoshiyasu Yoshikawa**, an orthodontic faculty member from Matsumoto Dental College, Shiojiri, Japan, who has begun a two-year program as a visiting scholar in IU's orthodontic department. Dr. Yoshikawa will be participating in a histomorphometric study of endosseous implants used for facial orthopedics. The project is part of an ongoing department mission directed toward the clinical use of rigid implants for orthodontic and orthopedic anchorage. The school also welcomes **Dr. Koichi Shinkai**,

Who's News

associate professor of operative dentistry at Nippon University School of Dentistry, Niigata, Japan, who is spending a year in IU's dental materials department as a visiting scientist.

Julie A. Metcalf, recorder of graduate and postgraduate education, has received written verification from the U.S. Patent and Trademark Office that she has been granted a patent for a creation the patent office calls an "Infant's Curiosity Article." Referred to by its creator as a "Tag Rag," Julie has designed a small cloth (slightly larger than a washcloth) containing "attractors" (i.e., tags of brightly colored material sewn onto the cloth) with 3- to 18-month-olds in mind. The cloth will offer babies an educational motor activity. "It's designed to train infants to grasp and manipulate objects," Julie explains. She foresees many different kinds of cloths—some with the ABCs or numbers attached, others that emphasize colors, shapes, or holidays. Julie made the Tag Rag's prototype in 1986. "I was looking for ways to occupy my two nieces while they traveled by car to their new home in Texas," she recalls. The next step, she says, will be to pitch her Tag Rag idea to toy manufacturers.

Fourth-year dental student **Ronald L. Miller** has been selected as a recipient of a 1992 Student Research Fellowship from the American Association for Dental Research. He is using the grant to work in orthodontics on a research project under the mentorship of Dr. Lawrence P. Garetto, director of the bone research laboratory. "We are looking for the effects of estrogen on osteoblast differentiation," says Ronald, who hopes to begin analyzing results from the study by December. He plans

to join other AADR fellowship recipients at a meeting in Seattle, Washington, in September 1993, when they will deliver poster presentations of their research studies.

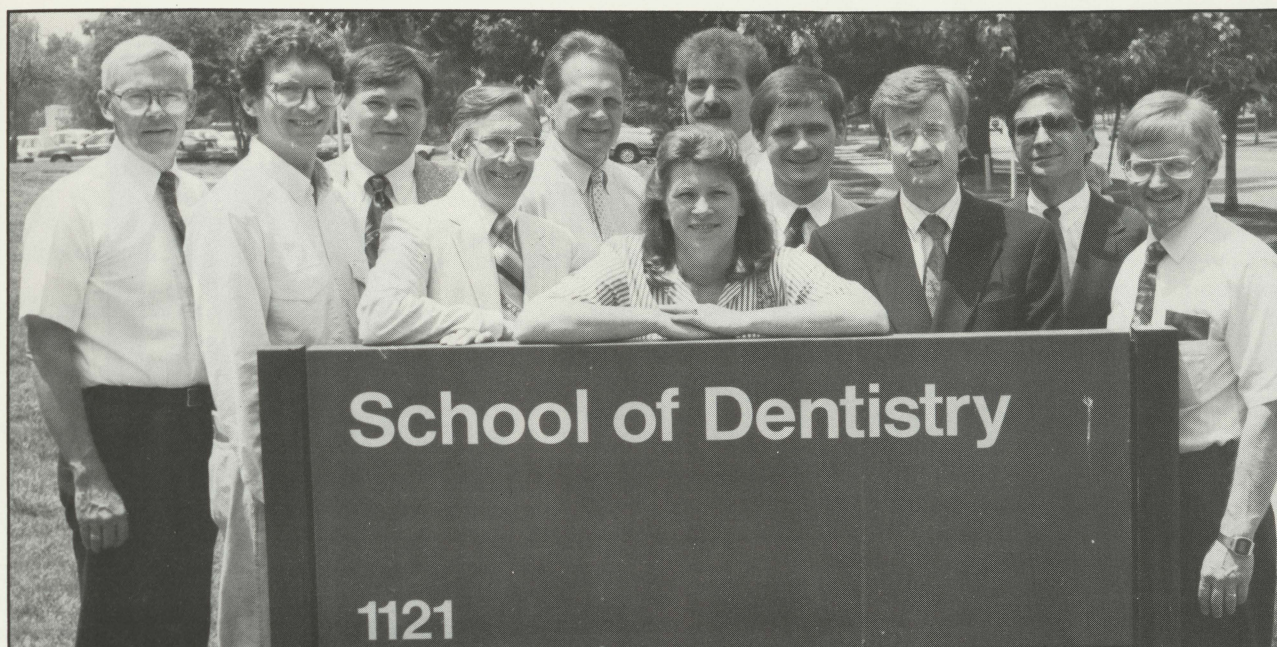
Last spring **Dr. Donald E. Arens**, associate professor of endodontics, presented a seminar on the practical applications of surgical endodontic therapy at the 5th European Convention of Dentists in Latina, Italy. His presentation included a live television demonstration of an endodontic surgical case. The convention was sponsored by the University of Rome. While in Italy Dr. Arens also lectured to several dental study clubs in Rome and Venice.

In June, Dr. Arens and IU endodontic faculty members **Dr. Carl W. Newton**, department chair, and **Dr. Kenneth J. Spolnik**, associate professor, traveled to Paris to participate in the Second Endodontic World Congress, a meeting of the International Federation of Endodontic Associations. Dr. Arens presented the topic, "Ultrasonic and laser root end preparation in endodontic surgery fulfills the principles of conventional endodontic therapy," and also moderated several other programs; Dr. Newton presented a discussion of the management of large periapical lesions; and Dr. Spolnik discussed considerations in differential diagnoses for orofacial pain.

During the meeting Dr. Arens was presented with a Bronze Medalion, the International Federation's highest honor, for serving as financial chair at this year's congress. He was also elected president-elect of the organization and is slated to assume the top office at a meeting in Kobi, Japan, in 1995.

Dr. Arens was also honored by the city of Paris and The Honorable Mayor Jaques Chiroc during a ceremony at City Hall. Mayor Chiroc decorated Dr. Arens with a Silver Medallion for his leadership role as a founder of the International Federation.

Photos on opposite page by Mike Halloran



'Gold Foil' presenters and participants, from left: Ronald Harris, course director; participants John Johnson (Columbus, Ohio) and Ralph Rucinski (St. John, Indiana); Melvin Lund, teacher; participant Timothy Toepke (Chicago); Judy Young, dental assistant; (behind Judy) participant Bob Modrowski (St. John); participants Walter Quack, Oliver Schmidt, and Wolfgang Kohrer (all from Germany); Timothy Carlson, teacher.

THE AMERICAN ACADEMY OF GOLD FOIL

Operators and Academy of Operative Dentistry sponsored their fifth Direct Gold Technique course at the IU School of Dentistry in June. The four-day program, given every other year, was first offered at Northwestern University but the past four programs have been produced, hosted, and taught by IU's Department of Operative Dentistry.

As in past years, participants had a choice of enrolling in basic training (simple one-surface restorations) or advanced (complex multiple-surface restorations). Dentists enrolled in the basic training treated three patients and those in the advanced course treated five. This year Drs. Johnson, Rucinski, and Toepke completed the advanced training. All participants were awarded a certificate.

OFFICERS OF TWO NATIONAL HONOR SOCIETIES—Theta Chapter of Sigma Phi Alpha (dental hygiene) and Theta Theta Chapter of Omicron Kappa Upsilon (dentistry)—inducted 14 new alumni members from the IUSD classes of 1992. Sigma Phi Alpha welcomed Darlene Carter, Karen Fouts, Susan Hartfiel, and Danielle Poole. OKU inducted Darin Ashcraft, Marybeth Brandt, Janet Dombrowski, Susan Draheim, Robert Gottschalk, Myriam Hudicourt Raber (also named OKU's Outstanding Student), Michelle Lecklitner, Malinda Mundy-Burgett, Jonathan Reitz, and Steven Schimmele.

Lawrence Garetto, assistant professor of orthodontics, was inducted as an OKU honorary member; and **Arthur I. Klein**, associate professor of pediatric dentistry, became an OKU life member.

Presiding over the spring luncheon at the IUPUI Union Building were OKU President **B. Keith Moore** and Sigma Phi Alpha President **Paula Russell**.



New OKU faculty: associate professors David Vandersall (periodontics) and Rose Marie Jones (prosthodontics)



OKU's William S. Kramer Award for academic excellence was presented to Daniel Burns (Class of '93) by Dr. Larry Ryan.



Dental lessons in the out-of-doors



DENTAL EDUCATION BY WAY OF "SESAME STREET." Second-year dental hygiene students Gay Findley (in the tooth costume) and Stephanie Stafford (with the IU logo on her sleeve) assumed positions right in the thick of the action at the Family Fun Festival, offering parents and children information on maintaining a healthy mouth.



Festival photos by Mike Halloran

Brush after every cookie, monster!

The theme was "Let's Meet on Sesame Street," even though WFYT's Family Fun Festival was actually held on North Meridian.

As all devotees of the popular television program know, "Sesame Street" is a wonderful place where learning and fun converge. A group of second-year dental hygiene students helped make the radio station's day-long "Sesame Street" festival in June informative as well as fun by staffing a dental health information booth. Student Gay Findley dressed up as an eye-catching molar to attract youngsters to the dental booth, where they could learn how to apply an oversized toothbrush to a jumbo set of teeth and avail themselves of other dental educational materials. Some young patrons were sent on their way sporting a happy tooth pin.

Other students who devoted their Saturday to the program are Penny Anderson, Cristy Bryant, Angela Dane, Inessa Ostrovsky, Michelle Pfundstein, Stephanie Stafford, and Valerie Weakman. Dentally related items given away to festival participants were contributed by the Indiana State Department of Health, Marion County Health and Hospital Corporation Dental Division, and Procter & Gamble Co.

Hoosier endodontists take part in program hosted by Buckeyes

One student and one recent graduate of Indiana University's advanced educational program in endodontics joined other members of District IV of the American Association of Endodontists during a day-long research program in Columbus, Ohio, last May. The meeting was hosted by the Ohio Association of Endodontists.

Dr. Paul J. Robbins (MSD July '92), a second-year graduate student at that time, presented an abstract entitled "Evaluation of Canned Milk Products as Media for the Preservation of Periodontal Ligament Cell Vitality."

A presentation by alumnus Dr. William M. Todd (MSD January '92) was entitled "Immunohistochemical Localization of Gastrin-Releasing Peptide (GRP) and Gamma-Amino Butyric Acid (GABA) in Pulp." Both Dr. Robbins and Dr. Todd served as principal investigator of the research projects they discussed.

Program participants represented eight universities in Kentucky, Michigan, Pennsylvania, West Virginia, Ohio, and Indiana.

At a business meeting portion of the program Dr. Carl W. Newton, chair of IU's endodontic department, represented the American Association of Endodontists as director of District IV.

Congratulations on a course well done!

Catching Keaton by Surprise

When oral surgery faculty member Dr. Wilfrid M. Keaton drove his wife, Mary, over to Mountain Jack's restaurant on the northside, he assumed they were going there to enjoy a nice fish dinner. Once inside the door, however, Dr. Keaton sensed there was something fishy going on that had nothing to do with the menu.

Spotted at a table across the room were one—no, two—of the dental students who had just finished a new training course Dr. Keaton teaches on the techniques of light conscious intravenous sedation. Pleased to see them, and wishing to introduce his wife, Dr. Keaton walked over to the table only to discover that *all eight* persons dining at that table happened to be the same eight predoctoral students in his class.

A mere coincidence? Of course not. As Dr. Keaton soon found out, the students (working with Mary on the sly) had arranged for him to walk in on a surprise party in his honor.

To show their deep appreciation of Dr. Keaton's teaching efforts in this pioneering course, the students presented Dr. Keaton with a handsome plaque containing their group portrait.

"It was an absolute honor to be recognized by this group of young professionals," Dr. Keaton said

recently. The plaque is now on display in his office.

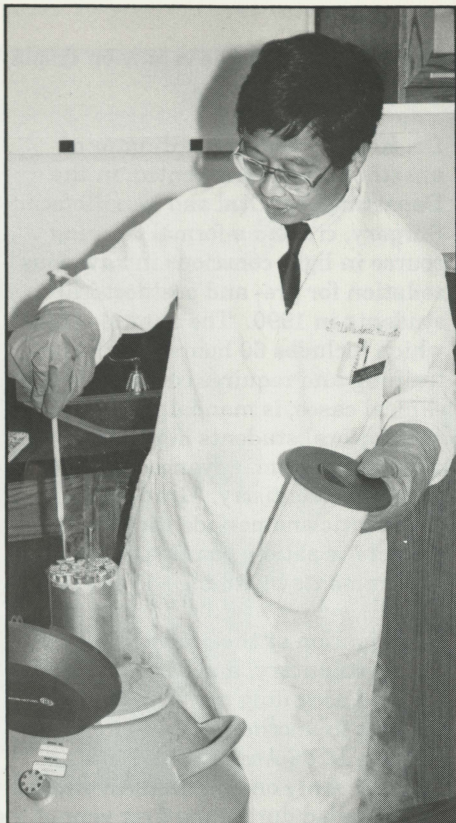
Dr. Keaton, who is coordinator of anesthesia and pain control in the Department of Oral and Maxillofacial Surgery, created a formal training course in light conscious intravenous sedation for pre- and postdoctoral students in 1990. The annual course, which includes 60 hours of didactic training and requires completion of 10 clinical cases, is mandatory for postdoctoral students in endodontics, periodontics, and advanced education in general dentistry. Graduate endodontic and periodontic students are able to satisfy board specialty requirements by taking the course.

Participation at the predoctoral level is purely voluntary, and candidates are selected according to how well they perform in another of Dr. Keaton's courses, *D706 Anxiety and Pain Control*. Only one predoctoral student was enrolled during the first year of the sedation course, so the 1991-92 group was truly Dr. Keaton's first undergraduate class.

"They did outstanding work," he said. "Because it is voluntary for the undergrads, you see a different appetite for knowledge with them. They were assertive and successful. All eight passed the rigorous Advanced Cardiac Life Support portion of the course, which was added this past year. Some of the postdocs didn't. We were so impressed with their performance that we increased enrollment to 12 for the 1992-93 school year."

The biggest challenge ahead for Dr. Keaton may be in trying to determine who gets accepted into the class in the future and who doesn't. At least 50% of the Class of 1993 showed an interest in participating. Graduates of the course receive a certificate from the school and then apply for a permit from the Indiana State Board of Dental Examiners, which will enable them to use intravenous light conscious sedation in a private practice setting.

The students (now dentists) who completed last year's course and honored Dr. Keaton are Theresa Block, Skipper Cheesman, William Flora, Robert Gottschalk, Gary Pascua, Gina Salkeld, Steven Schimmele, and Ronald Steinbrunner.



Photos by Mike Halloran

Cells move to 'four'

When Dr. Yiming Li (photo above) held an open house to introduce the new Cell Culture Laboratory facility on the dental school's fourth floor, the whole division got into the act—including the cells! They made a brief appearance for curious onlookers as Dr. Li lifted several types of cells from the storage tank where they are kept frozen in liquid nitrogen (and separated in test tubes according to type).

Dr. Li, an assistant scientist at the Oral Health Research Institute and head of the Cell Culture Laboratory, invited faculty, staff, and students to visit the new facility in May. Joining him in describing equipment and projects were research technologist Timothy Noblitt and research technician Adriana Origel (she has since left to pursue medical school).

The facility, housed in the school's former television studio, represents the first real "home" for this relatively new division of the OHRI. The laboratory had been making do with temporary quarters in the school's original basement under the oldest portion of the building.

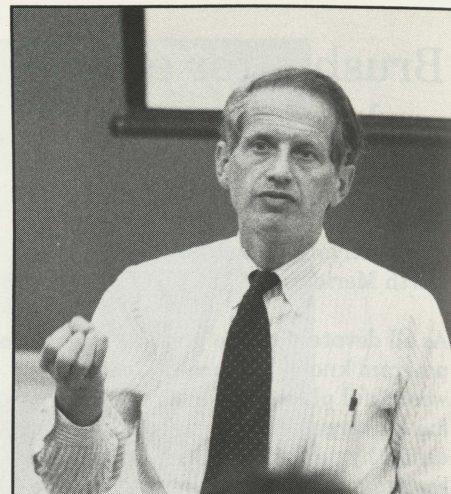
The word from NIDR: dentistry's future lies in molecular science

To fully comprehend the enormous responsibility of teaching dentistry, Dr. Bruce J. Baum, clinical director of the National Institute of Dental Research, says that dental faculties around the country should look at this year's incoming students not as the Class of 1996, but as practitioners who must remain competent until 2035.

Dental schools must offer students a curriculum that is bolstered by a strong research program, says Dr. Baum, who addressed IU's dental faculty and graduate students on July 30. He believes that the key to significant strides in dental research lies at the molecular level of science.

"We must teach clinically, but within a biological context," Dr. Baum noted. He predicts that biological research will have a tremendous impact upon dentistry during the next 50 years and will dramatically change the nature of the academic dental setting as we know it today.

Solving dental research problems at the biological level will increase our



NIDR Clinical Director Dr. Bruce J. Baum

understanding in such areas as wound healing and events related to salivary and secretory systems. Such research will also lead to the development of specific therapies for dental problems.

Dr. Baum is himself involved in genetic research involving the salivary glands. "We are attempting to re-design the duct cells," he explains of his work at the NIDR. The practical goal of the project is to help people whose salivary glands are adversely affected by radiation they receive for head and neck tumors.



Long May She Wave

A new United States flag snaps proudly in the breeze atop a pole in the yard east of the dental school. It is a beautiful symbol of our nation, and this particular flag is also a reflection of one dental staff member's feelings of patriotism and philanthropy.

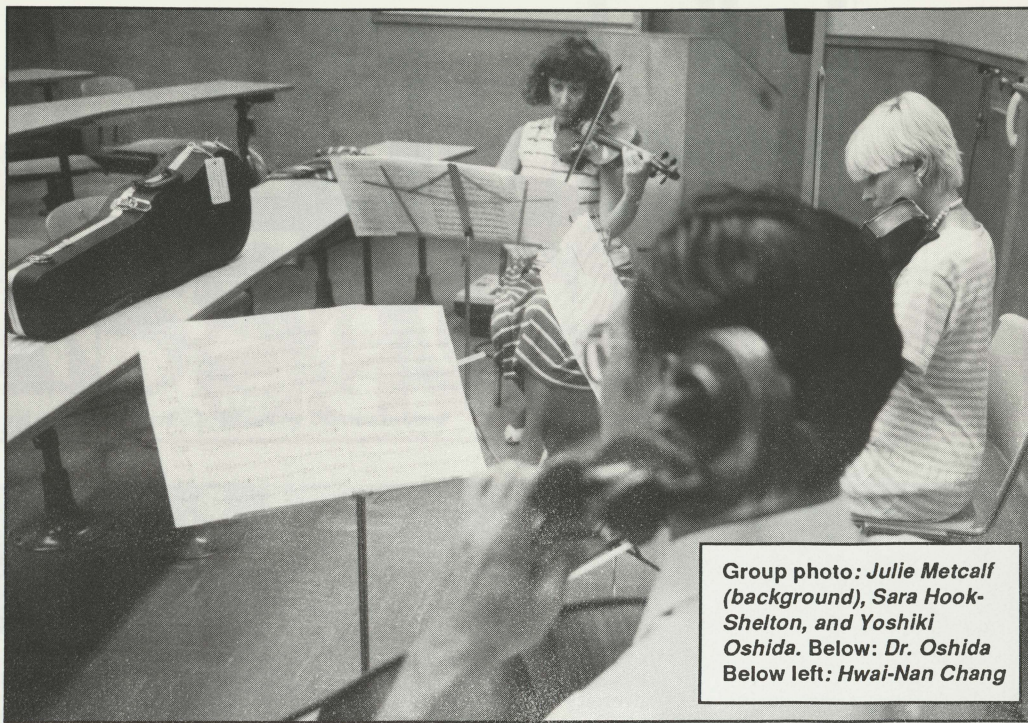
The flag hanging from this pole last spring was beautiful in spirit only. Tattered, faded, and long past its prime, the flag caught the disapproving eye of Lynn Collins, the school's principal billing clerk, when she was sitting on a nearby picnic bench. With the American soldiers who fought in the Persian Gulf still fresh in her mind, Lynn could not

dismiss the worn-out flag from her thoughts.

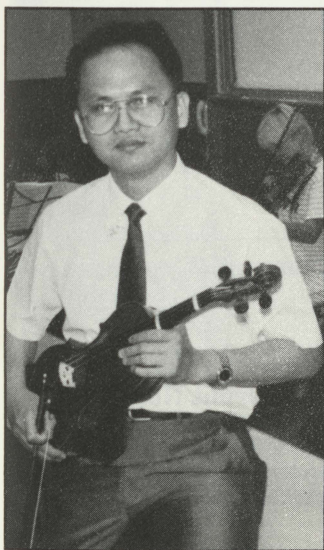
Instead, she decided to play an active role in the solution to this problem. "I wanted to have a new flag up by Commencement because the school often has many visitors at that time of year, especially parents of the new graduates," she said. After receiving counsel from the dean's office on the proper size needed for the pole, Lynn purchased a flag from a local store and donated it to the school. With help from Joe Smith, head of building services, she ran the flag up the pole herself.

Lynn was pleased to meet her self-designated deadline. A brand new 'Old Glory' was in place two days before IUPUI's Commencement on May 10.

Lynn brushed aside an opportunity to discuss her philanthropic gesture, clearly preferring to keep a low profile in regard to this generous act. "I'm a very patriotic person, that's all there is to it," she said.



Group photo: Julie Metcalf (background), Sara Hook-Shelton, and Yoshiki Oshida. Below: Dr. Oshida. Below left: Hwai-Nan Chang

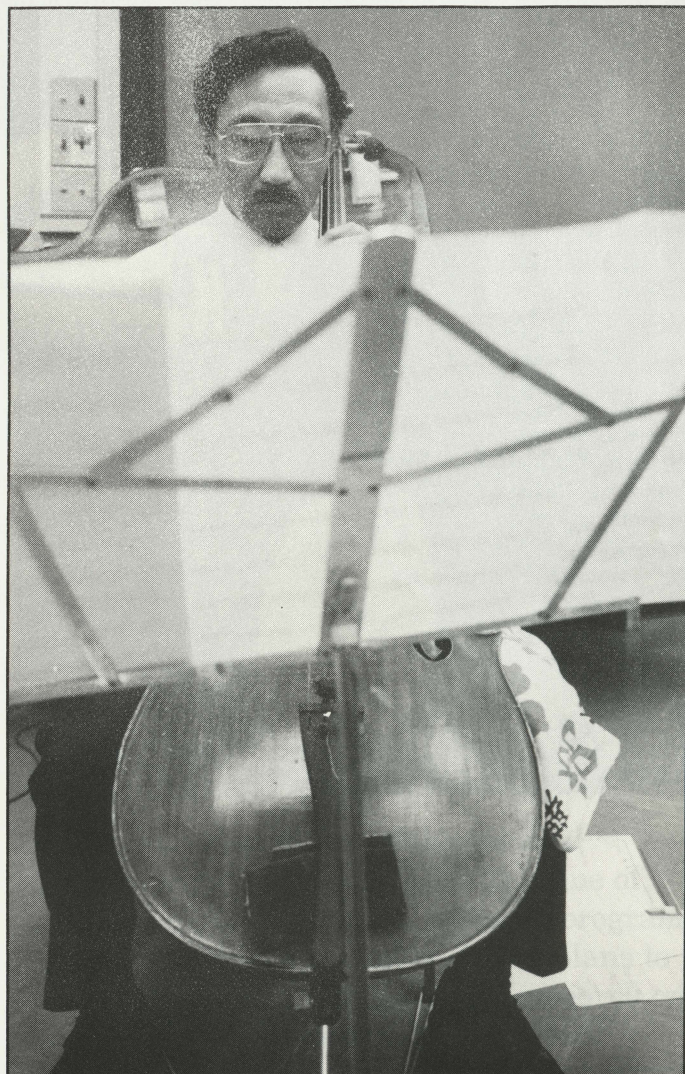


Tschaikovsky, and a host of other great composers.

The players are Julie Metcalf, of the graduate office, on violin; Sara Hook-Shelton, head librarian, on viola; and Dr. Yoshiki Oshida, associate professor of dental materials, on cello. A free lunch-time concert was offered in May, another was scheduled for August, and a program for the Christmas holidays is in the planning stages.

"We were pleased that so many people showed up for our first concert," said Julie Metcalf. "It's nice to have the backing of the school, and to know that lots of people in the building have an interest in classical music."

At the May concert the trio featured a guest performance by Dr. Hwai-Nan Chang, a graduate student in preventive and community dentistry who debuted on violin with his rendition of *Greensleeves*. Dr. Chang had only been playing for about two months at the time of his debut.



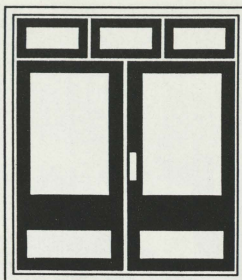
Photos by Susan Crum

Serene Summer Serenade

Individually, they are a librarian, a professor, and a graduate recorder.

Together, they form a trio of talented classical musicians known as the Serenity Strings, and lately they've been offering their friends and colleagues at the dental school a chance to dine to the tune of Schubert, Bach,

INSIDE PASSAGES



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