

Alumni Bulletin

INDIANA UNIVERSITY
SCHOOL OF DENTISTRY

FALL ISSUE, 1962
INDIANAPOLIS, INDIANA

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A free and non-profit bulletin issued by Indiana University School of Dentistry, Indianapolis, Indiana, for the purpose of keeping its alumni informed of the activities and progress of the School.

Elvis J. Stahr, jr., New President of Indiana University



Elvis J. Stahr, jr., native of Kentucky, was named by the Indiana University Board of Trustees to succeed Herman B Wells as President of Indiana University on July 1, 1962. President Stahr resigned as Secretary of the Army to become Indiana University's twelfth president. President Stahr was graduated from the University of Kentucky, then went on to Oxford University as a Rhodes scholar, returned to the University of Kentucky as Associate Professor of Law and in 1948 was made Dean of that University's School of Law. In 1954 he was made Provost of the University of Kentucky; in 1957 he was named Vice Chancellor of the University of Pittsburgh and a year later was made President of West Virginia University.

President Wells commented that his successor is a "recognized scholar, skilled academic administrator and experienced public servant." Everyone predicts that Dr. Stahr will give Indiana University dynamic and distinguished leadership. He has publicly expressed his interest in dental education on many occasions, and he deserves complete cooperation of all dental alumni.

Refresher Courses To be Offered During 1962-63 by the Dental School

November 14, 1962: CROWN AND BRIDGE SYMPOSIUM.

Dr. Ernest B. Nuttall of the Baltimore College of Dental Surgery, University of Maryland, Baltimore, will join the dental school faculty in presenting this symposium which will include the following subject-material: Present Status of the Porcelain Veneered Gold Crown; the Generated Path Technique in the Construction of Fixed Partial Dentures; Preparation of Teeth for Porcelain Jacket Crowns; Techniques in Jacket Crown Fabrication.

December 10-13, 1962: POSTGRADUATE COURSE IN PEDODONTICS.

Members of the staff of the Department of Pedodontics of the dental school will cooperate in presenting this course in pedodontics, which will be of particular interest to the general practitioner who includes children in his practice. The course will include two half days of clinical participation. Subject-material presented will include Behavior Guidance, Diagnosis and Treatment Planning, Restorative Procedures, Dental Materials, Dental Caries Control, Pulp Therapy, Management of Traumatic Injuries and Space Maintenance. LIMITED ENROLLMENT.

February 28, March 1, 2, 1963: POST- GRADUATE COURSE IN MAXILLOFACIAL PROSTHETICS.

This course will be presented by Dr. Jos. B. Drane of the University of Texas Dental Branch in cooperation with members of the dental and medi-

cal school faculties, and will consist of illustrated lectures, demonstrations and clinical observations. Subject-matter to be included will be Surgical and Prosthetic Management of Congenital and Acquired Maxillofacial Defects; of Cleft Palate Lip and Cleft Palate Speech; of Prognathism and Facial Bone Fractures; of Maxillofacial Tumors. Intra-Oral Prostheses and Extra-Oral Prostheses, Cranial and Facial Bone Prostheses. LIMITED ENROLLMENT.

March 13-14, 1963: SEMINAR FOR DEN- TAL HYGIENISTS.

This course will be presented by Dr. Delbert Oberteuffer of Ohio State University in cooperation with the dental and medical school faculties. Subject-matter to be included will be: Influencing Behavior through the Medium of Education; Reports of Current Dental Research; Effective Communication; Inter-relationship of Oral and Systemic Disease; Effectiveness of Multiple Fluorides; Deciduous Dentition and Pedodontics; Chemistry of the Oral Cavity on Dental Materials; Identifying Emotional Factors in Children; Deviate Swallowing. ENROLLMENT LIMITED.

April 17, 1963: SYMPOSIUM ON ENDO- DONTICS.

This symposium will be presented by the dental school faculty with Dr. F. D. Ostrander of the University of Michigan as guest lecturer, and will include a question and discussion period.

(Continued on page 46)

Report of the I.U. Biopsy Service

Dr. William G. Shafer

The Department of Oral Pathology has continued to maintain its tissue diagnostic service (biopsy service) available to all dentists in the state of Indiana. This service is supported by the Indiana University School of Dentistry and, in part, by the U. S. Public Health Service. The growth of this service since its inception in 1950 is shown in the accompanying figure.

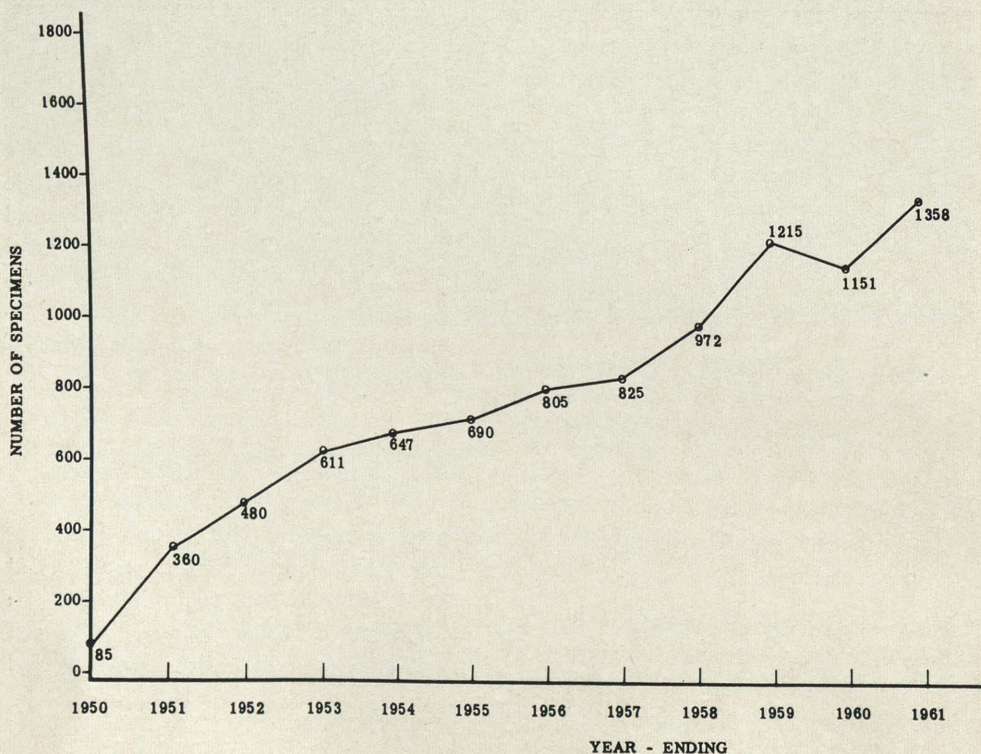
This increased utilization of the biopsy service by the dentists of Indiana is indicative of not only their continually increasing suspicion of oral cancer but also their increasing scientific quest for an explanation of the many benign lesions that occur in the oral cavity as an aid in providing better professional care for their patients.

Many serious unsuspected lesions have been detected by Indiana dentists during the past year and, of equal importance, the fears of many patients have been allayed by biopsy proof that serious-appearing lesions were actually innocuous. A list of various lesions from the patients of Indiana dentists diagnosed during the past year in the biopsy service is shown in the accompanying table.

Any dentist who wishes to make use of the tissue diagnostic service may do so. Tissue specimens, fixed preferably in 10 per cent formalin (available at most drug stores) or 70 per cent alcohol, should be mailed to the department of oral pathology at the dental school.

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INDIANA UNIVERSITY SCHOOL OF DENTISTRY
REPORT OF BIOPSY SERVICE



The Philosophy for the Need of Dental Laboratory Prescriptions*

Calvin C. Kernodle, C.D.T.

An important factor in dentist-dental laboratory relations is the lack of confidence that exists between the dentist and dental laboratory. Too often this is due to a misunderstanding regarding technical factors. Certainly there is plenty of evidence of bad practice on the part of unethical laboratories and laboratory technicians. But it *cannot* be said that the dental profession is entirely free of blame for some of these bad practices.

Inferior dental laboratories would cease to exist if dentists were more selective in their choice of laboratory assistance. Good dentist-dental laboratory relations can usually be established and maintained at the desired level by the dentist employing one of the better laboratories.

How does a dentist distinguish the better laboratories from others? Some of the characteristics of a better laboratory are these:

1. Their co-operation goes beyond fast service, cost, and credit, and includes the proper consideration for design, materials, and techniques.
2. They never stress price as a means of obtaining business.
3. They admit that they are *not* without faults and do not attempt to cover up their errors rather than ask the dentist to re-accomplish a procedure.
4. They use materials which meet the American Dental Association's specifications where possible.
5. They do not assume the right to include unsolicited procedures in the

service they have been requested to provide.

Good relations will be improved and maintained if the dentist recognizes a few do's and don'ts in employing a laboratory:

1. DO NOT expect miracles. Dental technicians are far from being magicians.
2. DO understand that the finished product can be no better than the foundation furnished; such as, a mouth preparation, impression cast, and so forth.
3. DO allow adequate time to properly construct the appliance.
4. DO NOT demand that the laboratory assume responsibility for the success of a prosthesis.
5. DO EXPECT to make final adjustments in the patient's mouth.
6. DO OFFER constructive criticism in such a way that it is recognized as constructive.
7. DO assume the role of a teacher to make sure that technicians are provided an opportunity for improvement.

An additional means of eliminating misunderstanding is through direction, order or prescription. This is now required by dental practice Acts in 36 states. Twenty-eight of these states require it to be in written form. At this time Indiana has no such Act, but a joint group of the Indiana Dental Association and the Dental Laboratories of Indiana have met to correct this situation. In addition to being required by many state laws, the prescription provides the dentist the opportunity to direct the construction of the

* Portions of a paper read before the Indiana University School of Dentistry Alumni Association, October, 1961.

appliance through the outlining of specific requirements and the laboratory with definite specifications outlining his responsibilities.

LABORATORY PRESCRIPTIONS

The need for a written prescription to convey the dentist's thoughts and plan of treatment for any prosthetic appliance which will be fabricated in a commercial dental laboratory cannot be over-emphasized. I am well aware that a dentist schedules his patients and does not allow much time for paper work. If, however, an appliance is returned from the laboratory and, through misunderstanding, the appliance is not what the dentist wanted or promised his patient, a loss of time will occur—generally enough time to write several prescriptions.

Perhaps some of you are thinking, "This doesn't apply to me, as I always send instructions to my laboratory." Many dentists do send good information and instructions with each case; but far too often, no more than shade and time of delivery are all that the technician will receive. Prescriptions do not have to be long and complicated. Many procedures are routine and will not deviate from one case to another. It should not be necessary to tell the technician to remove the scratches from acrylic, or gold, or to taper the clasps and bars of a removable partial—not always—but the majority of the time, these routine steps will be to your satisfaction, a prescription for full or complete dentures should include many of these points of information.

FULL OR COMPLETE DENTURE PRESCRIPTION

1. Mold and shade of anteriors—type of occlusal form of posterior teeth — Pilkington turner—20 degrees posteriors—rational or cusplless teeth.
2. Secondary tray—if you plan a rubber base impression, tell the technician to perforate the acrylic or leave it solid

for zinc oxide and eugenol paste; if there are bony prominences or tori, perhaps you will want to have extra relief in these areas.

3. What irregularities, if any, do you want in the set-up of anterior teeth. Diagram if necessary. Inlays, gold foils, or staining of anterior teeth.
4. Will the labial or buccal of acrylic be characterized; again a diagram is so very helpful.
5. Indicate if a soft liner is to be used.
6. The border of the denture—will you want the technician to trim and polish the borders—some dentists have this done in the laboratory, while others cringe at the thought.
7. Perhaps you prefer to have the laboratory return the processed dentures to you for spot grinding and milling before they are completed.
8. The dentist and the dentist alone is the only one qualified to say where the post-palatal seal should be and this should be cut into the cast by you. Also, if you want it, outline on the cast any palatal relief areas—relief chambers.

A PRESCRIPTION FOR CROWN OR BRIDGEWORK SHOULD INCLUDE:

1. Type and brand name of gold.
2. If the dentist does not trim his own dies, he should inform the technician of any irregularities if they exist. Describe the preparation; it may have a filling or be capped.
3. Type of facing or pontic—flatback—long pin—acrylic veneer, or porcelain fused to gold.
4. Type of connector—are all units to be soldered or may some be cast together?
5. You may want a broken stress joint, subocclusal rest, dovetail rest, starrball and socket joint, to name a few.
6. Form of pontic—if it is a long span bridge—should buccal, lingual surface be smaller than usual abutments.

7. Type of ridge coverage—a surgical removal may create an abnormal relationship.
8. Type of anatomy—deep or shallow, if bridge is unilateral, most technicians should know enough to approximate the anatomy of the opposite arch—if in a case of complete reconstruction, this guide may not be available unless the dentist supplies a study model taken before the preparation is cut.
9. Contact areas—on a long span bridge should the contacts be broadened to have more strength if vertical allows.
10. Would you prefer to have the cervical margins of the retainers polished or left alone?
11. Glaze of facings—do you want a high glaze or a low glaze? This is very important in anterior bridgework.
12. Select shade and include shade guide tooth with prescription.
13. Scraping of ridge—if wanted, say so—you may already have done this (NOTE) Scraping or relieving of the ridge is not taught or recommended at Indiana University (QUOTE DR. JOHN F. JOHNSTON). If crown is going to serve as the abutment for a partial denture, inform the technician so the guiding planes, proper undercuts, and occlusal rest seats, can be contoured into the crown.

PREScription FOR A
REMOVABLE PARTIAL DENTURE

1. Draw form of tooth to be clasped on the prescription.
2. Illustrate by drawing, the survey line or height of contour, clasp type, position, and depth of undercut on each tooth—undercuts are generally measured in .010-.020-.030 thousandths. Use differential colorings on drawings—survey line could be in black pencil and clasps in red. Having a

(Continued on page 48)

Electroplating Technic For Rubber Impressions

Ralph W. Phillips and Richard J. Schnell

POLYSULFIDE POLYMER

It is not possible to electroplate satisfactorily hydrocolloid or alginate impressions without some distortion occurring. Therefore, one of the merits of the Thio-kol materials is the ease with which they can be plated. Plating of silicone is not recommended due to the distortion which occurs during the plating procedure.

The impression is carefully washed with tap water and dried. With a soft brush, a fine silver powder* is burnished into all areas and the powder should contact the copper band. Other metallizing agents such as bronze or graphite, may be employed but silver powder produces a superior surface. The excess is now blown out. The copper band is wrapped with tape or wax, extending two to five millimeters beyond the open end of the impression. The band is now waxed onto the cathode holder and all conducting surfaces not to be plated are covered with wax.

A silver cyanide bath* is used for plating. Care must be exercised to keep acid or other chemicals away from this solution. The metallized impression is carefully filled with the solution, to avoid trapping air bubbles and is then lowered into the electrolyte. The upper end of the cathode is attached to the negative D.C. source. The silver anode is placed approximately four inches away and is attached to the positive D.C. terminal. Plating is carried out for approximately 12 hours at 10 milliamperes for each sq. cm. of area. Examine the impression during the first half hour. If some areas are

(Continued on page 48)

*Kerr Manufacturing Company, Detroit, Michigan.

Report from the President of the Alumni Association

The 1962 activities of the Dental Alumni Association started with our annual get-together at the Chicago Dental Meeting. Our hospitality room at the Hilton Hotel was busy as usual. Bob Stebbins kept it open until Frank Jones arrived, (delayed by the storm he said).

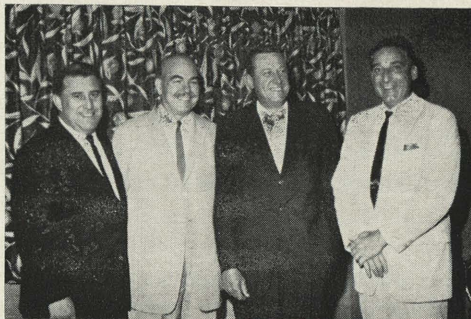
Our luncheon was attended by more than 100 alumni and guests. Bill Reed, the Big Ten Commissioner, was our speaker and was introduced by our athletic director Bill Orwig. Other guests included Dr. and Mrs. Hine, "Tug" Nelson (ex Big Ten Commissioner) and many outstanding alumni such as Drs. Timmons, Buehler, Eiler, and the entire state Board of Examiners.

Drs. Miles Barton has been appointed director of the Varsity Club Drive and is getting his campaign started.

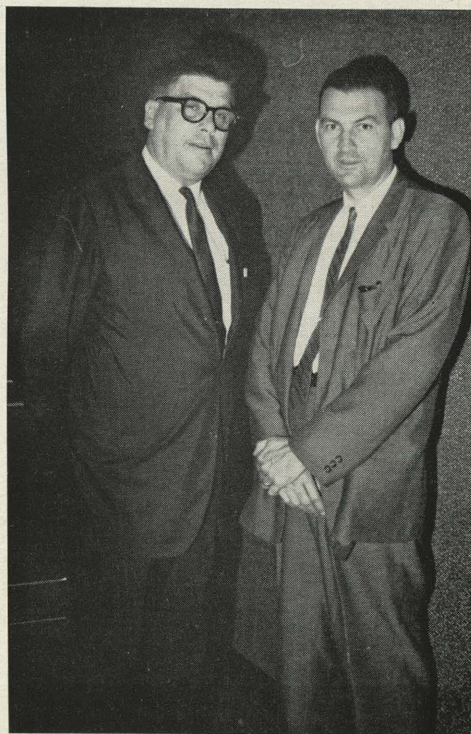
We sponsored a booth at the May I.S.D.A. meeting in order to stimulate an increase in membership. This year we are starting a drive to get affiliated members (Indiana dentists who graduated from schools other than Indiana U.). Dr. Malcolm Boone has been appointed as chairman of this activity.

At the House of Delegates meeting it was a privilege for me to present a gavel to Dr. William T. Smith, the new president of the I.S.D.A. Dr. Timmons and Prof. Phillips were accorded honorary membership in the I.S.D.A. at this session.

Near the end of the school year, the senior class of the Dental School was entertained by the T. M. Crutcher Co. and officials of the Alumni Office. Members of the Athletic Department were invited as speakers to encourage these new dentists in the support of the alumni association. Dr. Barton, Bill Orwig, Bob



The Varsity Club group attended the May senior dinner sponsored by T. M. Crutcher Company. Left to right: Bob Stebbins, Dr. Miles Barton, Athletic Director Bill Orwig and Bob Dro.



Frank Jones and Joe Muhler at the senior dinner.

Dro and Bob Stebbins expressed their gratitude for the support of our association in the area of athletics.

Our past president Dr. Al Yoder has just been elected to the Executive Council of the Indiana University Alumni Association.

We are getting our final plans tied together for our Fall Conference, October 12 and 13. Dr. Leer is enthusiastic about the increased interest in our golf tournament scheduled for Thursday, October 11. The American Society of Dentistry for Children has a fine program planned for Friday morning and we are pleased to welcome them again. Dr. James Roche is scheduled to present a program on the subject of stainless steel crowns for mutilated teeth and as space maintainers.

Our Friday luncheon will be served in the stadium dining room and we shall have a tour of the stadium and press box before returning to the Union Building for our scientific session and business meeting. Our scientific session will be a complete case presentation with treatment plans outlined by various departments from our school. After discussion of methods of treatment the fee schedule information collected by the I.S.D.A. will be applied and discussed.

We expect this to be interesting and at the same time of little expense to the association. Such savings shall enable us to contribute more from our treasury to the student loan fund.

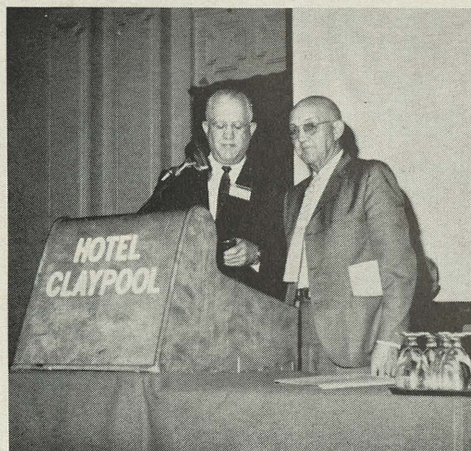
The program for the ladies has not been completed but will offer numerous activities including a tour of the campus.

We are trying to arrange the banquet in the evening which we hope will feature the introduction of the new President of the University, entertained by students of the school of music and a special alumni activity presentation.

Saturday's program shall include a brunch followed by an address by Dr. Vernon Forney. He is an I.U. School



Presentation of honorary membership to Indiana State Dental Association to Dr. Timmons by Pres. George Meyers. Dr. Frank O'Halloran, right, assists in presentation. (Professor Ralph Phillips was out of town and could not be present to receive this same honor.)



Dr. Robert Taylor presents gift to Dr. Timmons from their 1925 graduating class.

of Dentistry graduate of the Class of '39 and has had some most interesting experiences in his work in Public Health and Dental Education in South America.

We shall adjourn in time for an early departure for the stadium so that we can see the opening parade before the Iowa football game.

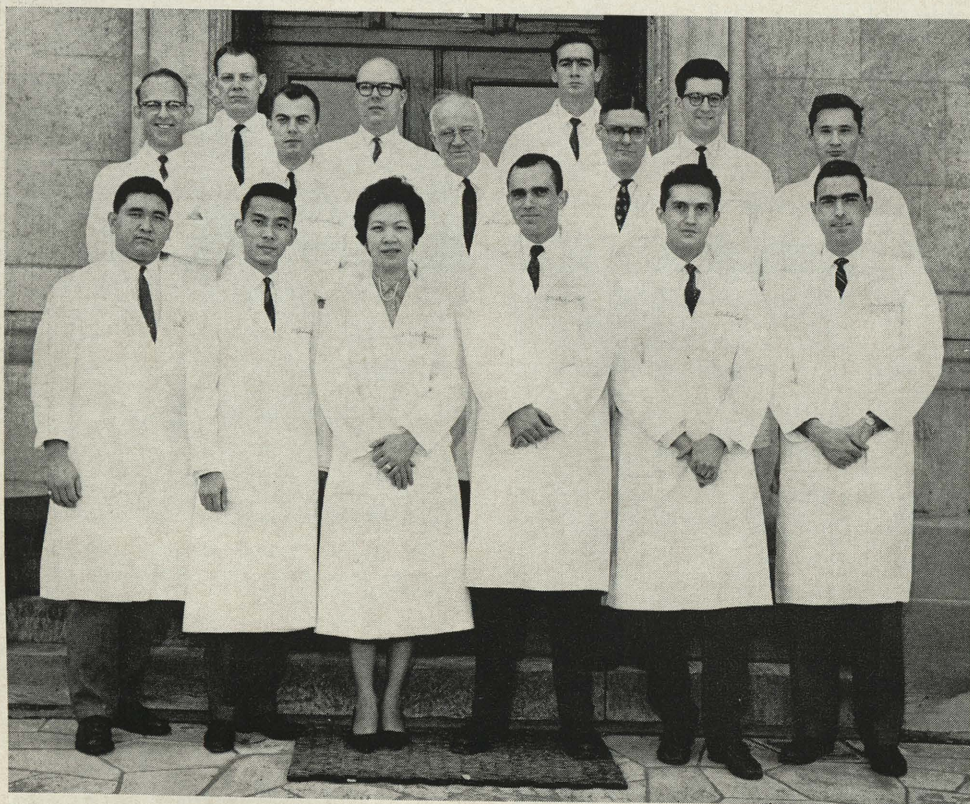
*Jack D. Carr, President
I.U.S.D. Alumni Association*

Crown and Bridge Graduate Program Grows

The graduate and postgraduate program of the Crown and Bridge and Partial Denture Department continues to be international in scope. During the past year, students were enrolled from Athens, Greece; Saigon, South Viet-Nam; Seoul, Korea; Tokyo, Japan; Montreal, Canada; and Perth and Sidney, Australia; as well as Hartford, Connecticut (McGill); Rochester, New Hampshire (Tufts); Falls

Church, Virginia (Medical College of Virginia); Washington, D. C. (Howard); and Indianapolis (Indiana University). Four of this group either have or will have completed the work for which they enrolled by the end of this summer.

Dr. Vu-Thi-Thin has returned to Saigon where she is under contract to the Department of Health until January; then she will include in her program teaching



GRADUATE STUDENTS IN FIXED AND REMOVABLE PARTIAL PROSTHODONTICS
TOP ROW (left to right): Roland W. Dykema, staff; Walter R. Teteruck, McGill University; Patrick J. Henry, Australia; Robert G. Schonbrun, McGill University.

MIDDLE ROW (left to right): George Mumford, staff; Robert W. Clements, Medical College of Virginia; John F. Johnston, staff; Donald C. FitzRoy, Howard University; Paul I. Lew, Indiana University.

FRONT ROW (left to right): Ray K. Maesaka, Indiana University; Sumiya Hobo, Japan; Vu-Thi-Thin, South Viet-Nam; Stefan H. Wittner, Tufts University School of Dental Medicine; Chazalambos Blazoudakis, Greece; Michael C. Kafalias, Australia.

in the Crown and Bridge Department of the School of Dentistry. Doctor Blazoudakis expects to teach and practice in Athens. Doctor FitzRoy is already on the Faculty at Howard University. Doctor Wittner, while practicing in New Hampshire, will instruct in the Crown and Bridge Department at Tufts School of Dental Medicine. Dr. Paul Lew (I. U., 1961) has become a citizen of this country and is headed for military service, after which he plans to return to Indianapolis to practice, and probably a part-time faculty appointment.

Dr. Sumiya Hobo, of Tokyo, is spending a second year in the department as assistant to Doctor Mumford. He expects to teach ceramics and to practice upon returning to Japan. He and Mrs. Hobo have made rapid progress in the use of English and U. S. customs. Upon receiving his M.S.D. degree, Doctor Teteruck will teach full time at McGill University School of Dentistry. Doctor Schonbrun probably will go into service. Doctor Clements has leased an office in Falls Church, Virginia. Dr. Kafalias will resume teaching at the University of Sidney, while Dr. Henry expects to return to Perth, although possibly not immediately. Dr. Ray Maesaka is a Crown and Bridge and Partial Denture Department staff member.

Four students from Venezuela, Mexico, Sweden, and the U. S. A., were selected from 19 applicants, to begin study in September of 1962.

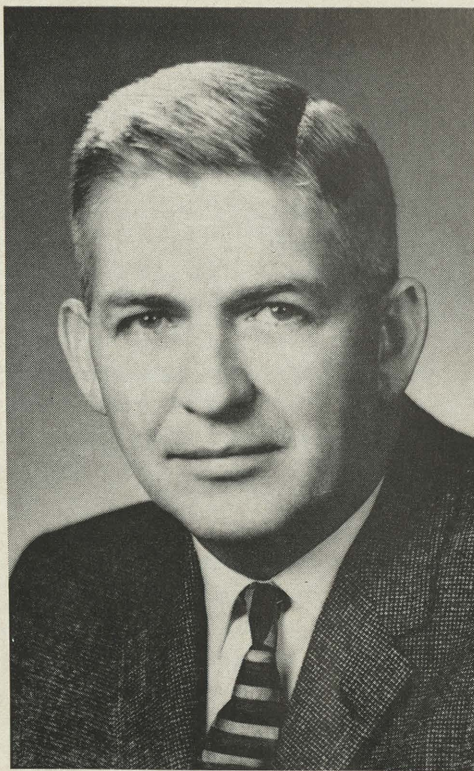
In previous years this program has had enrollees from India (2), Thailand (2), Puerto Rico, U. S. Army (3), Egypt (2), Canada, Korea, Peru, Switzerland (2), Mexico, Colombia, and Howard University. Nine are teachers, which includes four Crown and Bridge Department chairmen. Ten Indiana University graduates have been enrolled in this program and three now are on the staff at the dental school.

Dr. Joseph Volker Named Vice President

The alumni of the dental school were pleased to learn that Dean Joseph F. Volker, University of Alabama School of Dentistry, has been appointed Vice President in charge of Health Affairs. Dr. Volker, a graduate of the 1936 class from Indiana University School of Dentistry, was previously dean of the dental school, Tufts College. While at Alabama he also served as director of research and graduate studies at the Medical Center.

Dr. Volker's career has been an illustrious one. Under a Carnegie fellowship, he received a Ph.D. degree in biochemistry at the University of Rochester in 1941. His special academic assignments include advisory assignments to Germany, Czechoslovakia, Thailand and Jamaica. In the

(Continued on page 48)



Dr. Joseph F. Volker

Dean Hine reports that...

The most significant recent Indiana University news is that the University has a new President, Dr. Elvis J. Stahr, jr.

Alumni will remember that almost two years ago, President Wells announced that he desired to retire as president in 1962, when he had completed his twenty-fifth year. The Board of Trustees granted him an honorary degree of Doctor of Laws cum laude and appointed him Chancellor of the University, and President of Indiana University Foundation on July 1. President Wells merits every honor, because of his dedicated and successful presidency. His enthusiasm for and support of dentistry have always been exceptional.

President Stahr is highly recommended by all who know him, and from all indications will be an outstanding administrator. Since he has been responsible for other Medical Centers, he knows our problems and has expressed profound interest in them.

Alumni will be interested to learn that the Council on Dental Education of the American Dental Association recently studied the various dental educational programs at Indiana University School of Dentistry. One of the objectives of the Council on Dental Education is to observe every dental school in the country periodically. The dental school program and the dental hygiene curriculum were both fully approved. Details are reported elsewhere in this issue.

Sixty-eight well-prepared dental students were graduated with the D.D.S. degree in June and six additional students were certified for September 1962 graduation. From a class of eighty-one which was accepted four years ago, seven withdrew because of ill health, finances, or to transfer to some other profession, and five were dropped from this class for

scholastic reasons. Sixty-nine of the original class were graduated but five students were admitted at advanced standing after repeating some dental school courses, to raise the total number of 1962 graduates to seventy-four. The low failure and dropout rate indicated our student selection and teaching program to be satisfactory.

The graduate dental educational program continues to expand. This year a total of 103 students from many states and eleven foreign countries were registered in graduate courses, about half of them full time. Seven completed the requirements for a Master of Science Degree in Dentistry in June, and at least twelve more should be certified in September. In 1962 more graduates were certified for the degree than in all the years prior to 1956. Since the first dentist was granted a Master's degree in 1947, a total of 107 will have received this degree. Dr. Muhler, Secretary of the Dental Graduate Committee, reports that from this group, thirty-eight (36.5%) have entered full time teaching in dental schools and most of the others are conducting a specialty dental practice. Our graduate students have made significant contributions to dental research and teaching programs both here and elsewhere.

The undergraduate dental teaching program continues to receive primary emphasis, but the rapid expansion of our graduate and research programs has presented problems to the dental faculty. However, in addition to teaching duties, last year they published eighty papers in the dental literature and presented over two hundred programs to dental societies in this country and abroad.

The research activities of the dental school have almost reached "capacity" for our present faculty and research labor-

atories. From a single grant of \$3,000 for research in 1945, the increase has been steady and in 1961-62 a new high was reached of 47 grants for \$570,676. Most of the dental grants have been small, but every department has had some research studies underway.

The following faculty members received special recognition this past year:

Professor Ralph W. Phillips was appointed Research Professor of Dental Materials in recognition of his ability in research and as a lecturer in dental materials. He was also named as Chairman of the Dental Study Section, National Institute of Dental Research of the National Institutes of Health, member of the Planning Committee of N.I.D.R., Consultant to the Office of the Surgeon General of the Army, and member of the National Research Advisory Committee, and was appointed Chairman of the Advisory Committee on Adhesive Restorative Materials of the United States Public Health Service.

Dr. Charles L. Howell was installed as President of the American Association of Public Health Dentists, and reappointed Secretary of the Indiana State Dental Association.

Dr. David Mitchell served as President of the American Association of Oral Pathology and together with Drs. Shafer, Standish and Hine, arranged for the Association's annual meeting held in Indianapolis.

Dr. Ralph McDonald was elected President of the Indianapolis District Dental Society, and member of the Governor's Youth Fitness Committee.

Dr. Robert Buckley won the 1962 \$500 Graduate Student Pedodontic Award given by the American Academy of Pedodontics.

I was elected Chairman of the American Board of Periodontology and reelected as the Ohio, Indiana trustee of the American Dental Association.

Since the inception of our dental hygiene program a decade ago, dental hygienists have been well accepted in Indiana, and the demand for dental hygienists and dental hygiene education continues to increase. A total of twenty-two were granted certificates in June 1962 and most of them are practicing in Indiana. The 1962 class of thirty-two, most of them with some previous college education, was selected from 126 fine applicants.

Twenty-three new faculty members were appointed last year, most of them part time. Full time faculty members included Dr. Prasanta Basu, Dr. Joseph Bigelow, Dr. George Gifford and Mrs. Carla Jean Totten.

We hope that all alumni are planning to attend the homecoming of the dental alumni in Bloomington on October 11-12-13.

M. K. Hine, Dean

Honor Day Awards

The Honor Program for the dental seniors and dental hygiene graduates was held in the Student Union Building on Sunday afternoon, June 3rd. The program was conducted by Dean Maynard K. Hine and a list of the awards and recipients follows:

American Academy of Dental Medicine:

Edwin H. Sakurai

American Academy of Gold Foil:

James Frey

American Society of Dentistry for Children:

H. Raymond Klein

Indiana Society of Oral Surgeons presented the Glenn Pell Memorial Plaque to the dental school and the individual student award to:

John R. Haslem

Robert G. Botkin Award:

H. Raymond Klein

American Academy of Periodontology:

Larry D. Jones

Midwest Society of Periodontology essay contest:

John R. Haslem

American Academy of Oral Roentgenology Certificate:

Norman E. Chamberlain

Alpha Omega (national chapter) award for four-year outstanding scholastic record:

William F. Schultz

Indiana State Dental Laboratory Association:

full denture—Richard E. Barb

partial denture—Richard L. Day

crown and bridge—Howard L.

Imboden, III

Omicron Kappa Upsilon radiology interpretation:

1st prize—Richard Fisher

2nd prize—Norman E. Chamberlain

3rd prize—James D. Frey

American College of Dentists Award to student showing most improvement since freshman year:

Richard S. Buchanan

Senior Essay Awards:

1st prize—Richard L. Day

2nd prize—John R. Haslem

3rd prize—Michael J. Gross

Special Essay Award (Block Company):

Myron J. Kasle

Ert J. Rogers Memorial Award in Crown and Bridge:

David L. Hollingsworth

Interfraternity Council Scholarship Plaque:

1st place—Psi Omega

2nd place—Alpha Omega

Omicron Kappa Upsilon membership certificates:

William Amos

Richard Barb

John R. Haslem

John F. Hasler

William F. Hohlt

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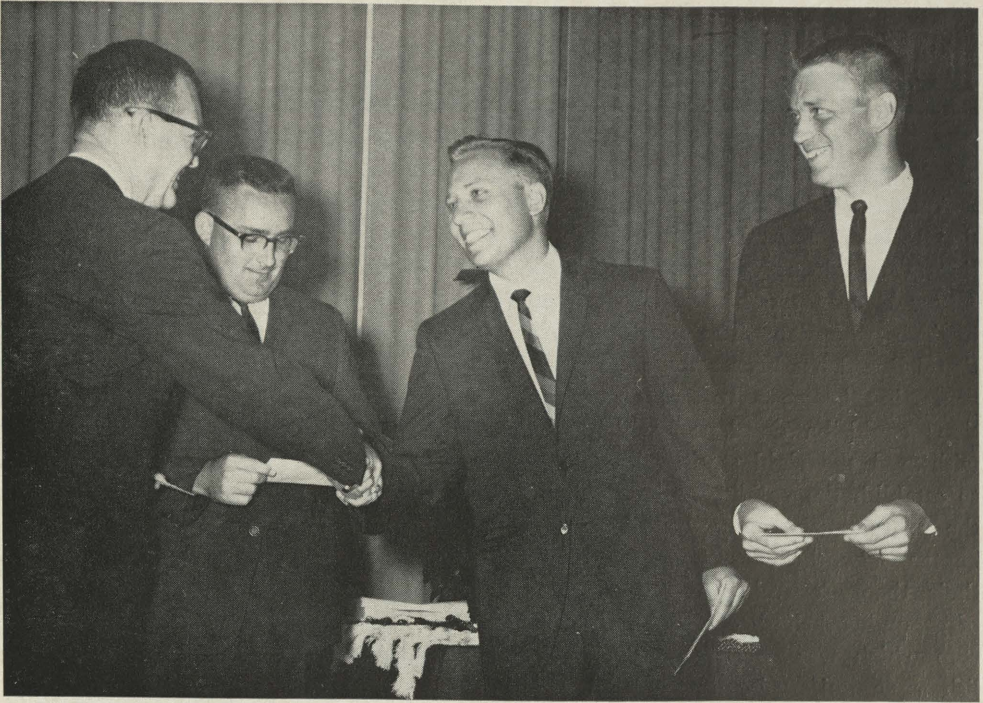
Mrs. Geller congratulates Dr. Edwin H. Sakurai, first recipient of the John W. Geller Award.



Mrs. Totten presents Indiana State Hygienists Association Award to Lois Stevens.



Dr. Ping and Dean Hine present Glenn Pell Memorial Plaque to John R. Haslem.



Dr. Howell presents Senior Essay Awards to: (left to right) Richard L. Day, Michael J. Gross and John R. Haslem.



Dr. Mitchell, President of Theta Theta Chapter, OKU, presents certificates to: (top row) Richard Barb, John F. Hasler, David L. Hollingsworth, Richard R. Rollins, William Amos; (bottom row) William F. Schultz, William F. Hohlt, Howard L. Imboden, III, and John R. Haslem.

Dental Hygiene

A. Rebekah Fisk, Director

April 2, 1962, the date the first National Board Dental Hygiene Examinations were given, will always be a Red Letter Day in the history of the dental hygiene profession. The need for a National Board has been apparent for many years, but before a battery of examinations could be developed which would withstand the rigid statistical evaluation to establish the validity and reliability of the measurement necessary to assure acceptance by the state boards in lieu of their theory examination, a great deal of groundwork had to be laid. The first step which was necessary was to establish some uniformity among the schools for dental hygienists. This was accomplished by the adoption of regulations for the accreditation of schools which were specific for areas of course content and minimum number of clock hours. Once the inspection of the schools for accreditation was underway, it became apparent that there was a great need for measuring the ability of the applicant to complete the program if admitted to the school and of measuring the achievement of students both during the program and at the time of graduation. These needs led to the development of the Dental Hygiene Aptitude Testing Program and the Dental Hygiene Achievement Testing Program. The Dental Hygiene Aptitude Testing Program provides scores for most applicants and thus on practically all students entering schools of dental hygiene, and is valuable for predicting the success of the applicant in school. The Dental Hygiene Achievement Testing Program provided an evaluation of programs in the individual schools and a comparison of the schools and proved that there was

sufficient uniformity among the schools for a National Board in dental hygiene which would be valid and reliable.

The first National Board Dental Hygiene Examination brought more alumni back to school than any event we have ever had. Thirty one alumni, twenty-two students, and fourteen graduates of other schools were assembled to participate in the first Board. Many other alumni took the Board at other testing centers. This year the dental hygiene students approached graduation knowing that they were eligible to practice in twenty-six states after meeting their requirements for the practical examination. We were very pleased to learn that Indiana University was among the nineteen schools whose second year students passed all sections of the Board. The National Board Dental Hygiene Examination has received the greatest instant support ever given any Board in the health science professions. The states which now recognize the Board are:

Colorado	Nevada
Hawaii	New Hampshire
Indiana	North Dakota
Iowa	Ohio
Kansas	Oklahoma
Kentucky	Rhode Island
Louisiana	South Dakota
Maine	Tennessee
Maryland	Utah
Massachusetts	Vermont
Michigan	Virginia
Missouri	Washington
Nebraska	West Virginia

The states of Kansas, Missouri and Maryland have indicated that they will require all applicants to have the Na-

tional Board to be eligible to take the practical examination. There are nine additional state boards which have indicated that they were unable to make regulation changes in time to accept National Board scores in 1962 but anticipate that they will be in the position to accept them within a short time.

These states are:

Alabama	Illinois
California	Minnesota
Connecticut	Pennsylvania
District of Columbia	Wisconsin
Idaho	

The status of the profession is judged according to criteria such as its national

organization, central business office, publications and procedures for the evaluation and accreditation of its educational programs. The American Dental Hygienists' Association has been the force responsible for the present position of the dental hygiene profession among those at the top in the field of health science. This status is highly competitive and can be maintained only by the cooperative effort and financial support of all graduate dental hygienists.

Members of the 1962 graduating class are associated in practice as follows:

INDIANAPOLIS AND VICINITY

Hila J. Draper—Dr. Donal H. Draper
Sandra L. Shrum—Dr. James R. Roche



1962 Dental Hygiene Graduating Class

Judith B. Spivey — Dr. Robert P. Nickels

Wanda Stevens—Dr. W. Bailey Davis
Lois J. Stevens—Dr. Willard C.

Stamper and Dr. Robert E. Tarplee
Marybeth Lamble—Dr. R. E. Clift

Carol West—Dr. Walter J. Dean

June A. Earnest—Dr. David S. Pearson

Jeanne L. Myers—Dr. Theodore H. Simpson, Jr.

EVANSVILLE

Karen S. McCoskey—Dr. Richard E. Wulff

Carolyn B. Wills—Dr. Charles Grief

LAFAYETTE

Audrey R. Gotsch—Dr. Dale W. Harvey

MONON

Ramona L. Schoonover—Dr. Samuel S. Border

GARY

Geraldine Kielbasa—Dr. John E. Walsh

BLOOMINGTON

Barbara A. Whitford—Indiana University Dental Study

CHEVY CHASE, MARYLAND

Susan Wills—Dr. J. J. Stevens

CINCINNATI, OHIO

Barbara Cohen—Dr. Frederick Schmidt

Kay B. Robertson and Karen S. Masbaum will return to school in September to complete degree requirements. Lorna J. Bonnet and Clarenden Simon took the Colorado Board and expect to remain in Denver. Carol Jean Tufteland took the California Board and will probably remain on the West Coast.

Dental Hygiene Alumni

The Dental Hygiene Alumni met for the second time in the Distinguished Alumni Room of the Indiana University Memorial Union Building on October 7, 1961. This group was organized in October of 1960 as an affiliate of the Indiana University Dental Alumni.

Mrs. Jean Leyda presided in the absence of Mrs. Sally Pfafflin. Informative scientific presentations by Dr. Charles W. Gish, Director of the Division of Dental Health and Miss Frances Heymans, Director of the Nutrition Division, Indiana State Board of Health, followed a short business meeting.

The attendance was heartening, especially considering that this is a very young

organization. Miss Myrtal Starr was elected to the chairmanship of the group and Mrs. Ann Spedding was elected secretary. Mrs. Carla Totten will act as liaison between the school and the Indiana University Dental Alumni Association.

We hope that all dental hygiene alumni will join us for the third meeting of the Association in October. The meetings are informative, offer an opportunity to renew old friendships and open a whole weekend of entertainment, scientific meetings, socializing, and football. You will receive a program in the near future for the next meeting, which will be October 13th.

Ann B. Spedding, Secretary

Alumni Notes

Mrs. Cleona Harvey, Recorder

Greetings, all you dental school grads! Once again we are pleased to have the opportunity to say "hello" to you and send you our best wishes. It is always our sincere hope that each of you may be privileged to have good health and happiness, along with the opportunity of serving the dental needs of the public!

Another busy school year has come to a close, another class has been graduated, and these fledglings have gone out all over the world to spread the fame of I.U.S.D. As always, we believe this is one of the finest classes that has been graduated (we felt that way about YOUR class, too—remember?).

Now another year is about to get underway, and we are busily preparing for the classes to begin on September 17, when we expect to enroll another capacity class of 90 freshman students.

Our news for this column is just a little "short"—why don't *you* sit down and write us a little news about yourself that we could publish in this column in the next issue? Remember that you enjoy reading these bits of news about your classmates, and they will enjoy reading about you, your progress, your plans, your children, etc.

We do have news from the

Class of 1907

Dr. Everett W. Ross, Garden City, Kansas, was chosen Guest of Honor for the 91st annual session of the Kansas State Dental Association in 1962, and the following item was printed in the Kansas State Dental Association Journal:

"Dr. Everett W. Ross of Garden City has been chosen the Guest of Honor for the 91st annual session of the Kansas State Dental Association in Topeka, Kan-

sas, May 6, 7, 8 and 9, 1962 . . . Dr. Ross has taken postgraduate work at Northwestern University Dental School and numerous other postgraduate courses. He has given various clinics before Study Clubs, District, State and American Dental Association meetings.

"He is a member of the Southwest Kansas Dental Study Club, a member of and Past President of the Central District Dental Society, and a Life Member of the Kansas State Dental Association and the American Dental Association. He has served for several years as a member of the Executive Council of the Kansas State Dental Association. He is a member of the Pierre Fauchard Academy. . . .

"Dr. Ross has earned a high place in his community and state, both professionally and personally. He has a rare talent for friendship, and an unpretentious genial personality. He has always practiced his profession with an enthusiasm and zeal of which few men are capable.

"We salute you, Doctor Ross, and wish for you many more years of happiness!" And to this we wish to add your Alma Mater's congratulations, Dr. Ross!

Class of 1913

We have received word from Mrs. Ben W. Miller that her father, Dr. O. T. Linn, passed away in April 1962. Mrs. Miller says of her father, "he was in a profession he dearly loved and we would like for his friends to know of his passing." The newspaper article concerning his death contains some interesting facts about Dr. Linn:

He was a descendant of James Parks, first Bourbon (Indiana) settler, and fourth-generation professional man. His family, which is believed to have cleared

the land for and planted the first corn field in Eastern Marshall County, had an unusual history in the professions. His great-great-grandfather, Solomon Linn, had married Polly Parks, daughter of James Parks, and together they came with the father and mother of Polly and seven other sons and sons in law to become the first settlers in Bourbon township. Solomon was a pioneer minister; Dr. Linn's grandfather was a medical doctor and his father was a dentist. His grandson, Dennis Miller, has become a well-known movie and television performer. After playing the title role in "Tarzan and the Apes," he entered television and is seen weekly in "Wagon Train."

Dr. Linn, who was born March 22, 1890, was a lifelong resident of Bourbon, Indiana.

Class of 1922

Dr. Richard C. Leonard, Chief, Division of Dental Health, Department of Health of the State of Maryland, 301 West Preston Street, Baltimore 1, Maryland, writes Editor Phillips as follows:

"Coincidence! In the same mail I received copies of the 'Bulletin' and of the 'Journal of the Baltimore College of Dental Surgery,' Dental School University of Maryland. The latter is the alumni periodical of the local school of which I am an honorary alumnus.

"Additionally coincidental is the fact that Mrs. Leonard and I are leaving May 18 for Indiana for brief visits with relatives, but principally to attend a reunion of the class of '22 than which no better class was ever graduated by either I.U. S.D. or any dental school (Jerry Timmons, Herb Mason or anyone else to the contrary notwithstanding).

"Credit for organizing the '22 reunion goes to Herman C. Lumpf of Mattoon, Illinois. It is to be a luncheon at the Claypool on Monday, May 21. I attended in 1957 but the 40th anniversary should be even more memorable.

"I enjoy the Bulletin greatly."

Class of 1939

We have received the following letter from Dr. Vernon J. Forney, with his change of address to 621 17th Street, Room 551, Denver 2, Colorado:

"After nearly five years in Brazil with the International Cooperation Administration and now the Agency for International Development, I have returned to duty in the U. S. Public Health Service. Presently I am serving as the Regional Consultant in Dentistry for Region VIII of the Department of Health, Education, and Welfare in Denver, Colorado."

Dr. John P. Jarabak, University of Oregon Dental School, 611 S. W. Campus Drive, Sam Jackson Park, Portland 1, Oregon, writes,

"I retired from the U. S. Navy Dental Corps with the rank of Captain in October 1960 after 21 years of continued service. I am now associate professor of oral surgery at the University of Oregon Dental School, a Diplomate of the American Board of Oral Surgery and a member of the American Society of Oral Surgeons.

"In 1946 I married the former Jan Janelle of Gardiner, Oregon. We have two sons, John, Jr., age 13 and Andrew Reed, age 8, and are in our home at 16609 S. W. Canyon Drive, Lake Oswego, Oregon."

Class of 1947

Dr. Rocco P. Nazzaro, 896 East 28th Street, Paterson, New Jersey, writes, "I can't begin to tell you how much I enjoyed my recent visit to the school and seeing my classmates at our 15-year reunion. There is nothing like a reunion to turn back the hands of time and bring back fond memories."

Dr. Nazzaro was recently elected president of the Passaic County (New Jersey) Dental Society and is a charter member of the New Jersey Alumni Chapter of Psi Omega Fraternity. He has served as chairman of several committees of the county dental society, was society treas-

urer and has been a member of its executive committee for several years. He is a member of the state and American Dental associations and is on the dental staff at St. Joseph's Hospital. A member of the Fidelians of America and the United Veterans, he served in the Army two years during the Korean War.

Class of 1950

An inquiry which we made regarding an address for Dr. James Simmonds brought the following nice note from Mrs. Simmonds:

"Dr. Simmonds has been on active duty with the Air Force since October 1, 1961. We had mail re-routed to our home address, so any correspondence can be mailed here. As soon as he is released from active duty the address will revert to 1700 Broadway, Anderson, Indiana. Our home address is R. R. 1, Box 204, Daleville, Indiana. Any further correspondence at this time I will be happy to forward to him in France."

Class of 1951

Dr. Donald J. Walden, 1100 East 18th Avenue (East 18th Avenue and Downing Street), Denver 18, Colorado, writes,

"I have always been proud and appreciative of my four years at Indiana and am pleased that my nephew made the right decision and has decided on a career in Dentistry, and I am grateful that he has been accepted in the freshman class this coming September. I sincerely believe him to be of such caliber that you will be happy in 1966 that you made him an 'Indiana Man.'

"Our Colorado Dental Association has been fighting valiantly for the establishment of a dental school here in Denver at the C. U. Medical Center. We are hopeful for the necessary appropriation from our next legislature in January 1963.

"Last May during your state meeting (and our class tenth anniversary reunion) I spent half a day at the school. The expansion and progress are very impressive."

Class of 1952

We know you will be interested to hear that Dr. David G. Frye, Jr., 214 Second Street, N. W., Hickory, North Carolina, had a paper published in a recent issue of the Journal of the North Carolina Dental Society entitled "Aspirator Syringes—Facts and Figures."

We received an announcement of the addition of a 7 lb. 1-1/4 oz. boy to the family of Dr. and Mrs. Rafael Aponte, Ave. de Diego 309-311, Parada 22, Santurce, Puerto Rico, on April 28, 1962. Congratulations!

Having had an inquiry concerning the address of one Dr. H. W. Glasser, we wrote him and received the following news:

"Have just returned to my duty station, U. S. Naval Weapons Station, Yorktown, Virginia, from a week's course in Preventive Dentistry. This seminar type course was hosted by Naval Dental School at Bethesda and we were fortunate in having the finest minds on this subject. Joe Muhler was the guest speaker for the climax of the week. Hadn't seen him since 1952 when he presented his first public effort in the field of preventive dentistry. We had a one semester course conducted by him on this topic.

"The Box 72, Hudgins, Virginia, address is our residence while on this tour of shore duty. Hudgins is a village in tidewater Virginia, smack up on the shores of Chesapeake Bay. It is very pleasant living here but unfortunately I will be rotated in 1964 so that it cannot be permanent until I retire.

"Yorktown is in the heart of a wonderful area. We make frequent visits to Williamsburg which we never get enough of, time does not permit all the events we attempt to cram into every week.

"I hoped to return for our 10th class reunion but the four boys are in school and I cannot get away to see my old classmates.

"Best wishes to all of my fine friends in your office and on the faculty."

Dr. Ernest H. Besch, 1008 Medical Arts Building, San Antonio 5, Texas, writes,

"Had intended writing before this (where does the time go?) to tell you how wonderful it was seeing you all again. Seeing old friends made my trip a real pleasure. One thing I'll have to do is get some of you people to come to San Antonio either when it isn't so hot or too cold. We have beautiful weather about nine months out of the year, yet most visitors seem to come the other three months.

"Am enclosing a copy of the graduation exercises at St. Mary's University, San Antonio, May 27, 1962, for your interest. My youngest brother and I graduated from St. Mary's at the same time. There's something wrong there; I had a head start and yet we finished together (maybe he worked harder).

"Best regards."

(You '52ers may be interested to know that Dr. Ernest Besch received the Bachelor of Laws degree along with his brother, Carl D. Besch.)

Class of 1955

Dr. Norman Glassman, 633 BayWay, Elizabeth, New Jersey, writes,

"After reading the latest Alumni Bulletin I felt I wanted to write and say hello—I don't see many of our Indiana classmates here in New Jersey but I think of them often. My children are now six and four years old, my daughter the oldest. I heard from Robert Kuhn ('55) who is practicing in Santa Barbara, California (had a son this year); and during the last year the telephone has brought me in touch with Delmar Miller from Jacksonville, Florida; also John Borkowski in

Indianapolis. Also stopped in to see Marvin Bernstein ('56) in his new oral surgery office near Spring Valley, New York.

"I'm keeping busy with my general practice and hope to visit with you soon. My regards to the faculty and my classmates on the staff."

Class of 1959

We received an announcement of the marriage of Dr. William S. Mull (USS Cascade (AD-16) FPO, New York, New York) to Miss Cecilia Pereira on June 2, 1962, in Fall River, Massachusetts.

We also received an announcement from Dr. and Mrs. Robert Modlin (RDH, 1958) (his address is 02295823, 87 Med. Det., APO 696, New York), of the birth of a daughter, Holly Lynn, born April 1, 1962, 8 lb. 2 oz.

Dr. Kent Wilson, Dental Detachment, Fort MacArthur, California, writes,

"I certainly would like to get to Indianapolis to see some of the instructors and the new addition. From what I have read, it must be quite a layout. I also would like to take some of your refresher courses when I get out of the Army . . . I expect to be out before the end of the year and will come 'back home again' to Indiana.

"Give my best to all the instructors."

Dr. Rolando Bernui, 7402 Gallop Drive, San Antonio 27, Texas, writes,

"I hope that this letter will find you enjoying good health and that the busy schedule has diminished for the summer months. It is always nice to receive the I. U. Bulletin and be informed of the activities at our school and the individual activities of classmates. I think you do a wonderful job with your inserts. . . .

"I am still serving at the Air Force's largest hospital, Lackland, and am now applying for a regular commission. . . .

"One of the wonderful experiences I have had in the Air Force was the opportunity to examine and provide dental

treatment for our astronauts. I would like to say they were the most wonderful patients and the most considerate people I have come across.

"With kindest regards."

Class of 1960

We are pleased to report the birth of a 6 lb. 15 oz. daughter, Leila Leialoha, to Dr. and Mrs. Ronald Yamaoka, 388 Elmwood Avenue, Buffalo 23, New York. (Mrs. Yamaoka is the former Dr. Carolyn Sewell.)

Dr. E. M. Pfafflin, Oral Surgery, Parkland Memorial Hospital, Dallas, Texas, writes,

"Howdy from the great Southwest. This is my second year in Texas and I am still enjoying the mild climate very much. Sorry to hear that you had such a rough winter up there this last winter. I am completing my second year of oral surgery residency at Parkland Memorial Hospital in Dallas. There are also eleven other fellows here from the Med. School doing their internships. Needless to say, the people at the hospital think that there has been a Yankee invasion.

"Our service handles all the maxillo-facial trauma, and believe me, there is plenty. The program is under Robert V. Walker, and he is a very dynamic individual. Perhaps you met him when he lectured at the school in March. I also instruct in the oral surgery clinic at Baylor Dental School. My wife, the former Sally Alcock, is also on the staff at the school, as clinical instructor in dental hygiene.

"Hope all is going well with the new wing. Regards to everyone. We are holding the I.U. banner high in this part of the world."

Class of 1961

Dr. Robert A. Winkler, 1020-D Las Gamos Road, San Rafael, California, says,

"Just a few lines to say 'hello' from 'sunny' California. The internship will soon be over—it has been a real fast year."

Class of 1962

Dr. Fred V. Sanders, Personnel Building, Beatty Memorial Hospital, Westville, Indiana, writes us,

"In case you are interested, after my six weeks of orientation in San Antonio, Texas, my permanent duty station will be Fort Huachuca, Arizona. This is 100 miles south of Tucson and 15 to 25 miles north of Mexico.

"I am currently working at Beatty Memorial Hospital with two other dentists. One is a graduate of Northwestern University and the other is a graduate of Tennessee University. I am enjoying my work very much and am getting a lot of practical experience."

And now, as usual in this issue, we are pleased to give you the names and present addresses of the 1962 graduates of Indiana University School of Dentistry.

Class of 1962

Amos, William C.
Box 913 Ogden Dunes
Portage, Indiana

Bales, Jimmie F.
207 Main Street
Beech Grove, Indiana

Barb, Richard E.
3325 Guilford Avenue
Indianapolis, Indiana

Bauermeister, Donald E.
1068 Windermire Street
Indianapolis, Indiana

Benefiel, Dale A.
11830 Pendleton Pike
Oaklandon, Indiana

Beratis, Harry
2415 North Talbot
Indianapolis, Indiana

Boren, David W.
Poseyville, Indiana
(We are sorry to report that Dr. Boren
was killed in an automobile accident on
July 2, 1962.)

Bowling, Richard Paul
5205 Manker
Indianapolis, Indiana

Bromm, James A.
5937 Nash Lane
Speedway, Indiana

Brooks, Jack D.
R. R. #2
Fremont, Indiana

Buchanan, Richard S.
3001 Omanda Road
Lima, Ohio

Cavanaugh, John Robert
222 South 5th Street
Vincennes, Indiana

Chamberlain, Norman E.
2412 Martinwood Dr.
Orlando, Florida

Davidson, Ernest W.
3502 West 11th Street
Indianapolis, Indiana

Day, Richard Leroy
916 E-N "G" Street
Gas City, Indiana

Ford, James A.
121 East Kirkwood Ave.
Bloomington, Indiana

Frey, James D.
3501 South Harrison Street
Fort Wayne, Indiana

Garoutte, Horace Jr.
R. R. #2
Bristol, Indiana

Gross, Michael J.
c/o Dental Dispensary
USMC Base, Camp Pendleton
Oceanside, California

Harris, David James
440 North Winona #108
Indianapolis, Indiana

Haslem, John R.
Dental Branch
University of Texas
Houston, Texas

Hasler, John F.
USPHS Hospital
Outpatient Clinic
225 Chestnut Street
Philadelphia, Pennsylvania

Hohlt, William F.
6312 South Sherman Drive
Indianapolis, Indiana

Hollingsworth, David L.
R. R. #4
Peru, Indiana

Hom, John P.
2860 Redwood Street
San Diego 4, California

Hopping, Michael D.
5601 Stringtown Road
Evansville, Indiana

Imboden, Howard L., III
563 Heather Drive
Dayton 5, Ohio

Irwin, Robert R.
303 Adams
Decatur, Indiana

Jackson, Earl W.
310 West 38th Street
Marion, Indiana

Jackson, Lloyd C.
Route #1, Box 170B
Brownsburg, Indiana

Jinks, James C.
3858 Forest Grove Drive C-3
Indianapolis 5, Indiana

Jones, Gene Alan R. R. #1 Lizton, Indiana	Martin, Robert A. 107 Van Boron Terre Haute, Indiana
Jones, Larry Dan 501 Arcadia Indianapolis, Indiana	Martin, Rodger A. 2335 South Ransdell Indianapolis, Indiana
Kasle, Myron J. 557 East 81st Street Indianapolis, Indiana	Mead, William R. 802 South Main Street Cheboygan, Michigan
Kelley, Louis E. 207 North Tremont Indianapolis, Indiana	Neville, John E. Jr. 3035 Country Club Drive Glendale 8, California
Kerkhove, Bernard C. Jr. 1325 West Michigan Street Indianapolis, Indiana	Newbauer, Bernard A. 419 Edgemere Drive Indianapolis, Indiana
Ketner, Vern 440 North Winona Indianapolis, Indiana	Nichols, John Lee 601 Delaware Terre Haute, Indiana
Kirchoff, David A. Freelandville, Indiana	Parkinson, Robert L. R. R. #13 Evansville, Indiana
Kitajima, Noritaka Box 411 Kapaa, Kauai, Hawaii	Ramos, Jose I. 52 South Hoke Street Frankfort, Indiana
Klein, H. Raymond 430 Douglas Drive Brownsburg, Indiana	Ring, John MacKay 415 South 16th Street Chesterton, Indiana
Knable, Alfred L. Route #2, Box 404 New Albany, Indiana	Roberts, K. Keith, Lt., DC, USNR Dental Division Marine Corps Supply Center Albany, Georgia
Kolb, Phillip W. R. R. #1 Patoka, Indiana	Rodgers, Harold T. Box 266 Lapel, Indiana
Lebamoff, Nick J. 3116 South Clinton Court Fort Wayne, Indiana	Rodkey, John D. R. R. #1, Box 82 Bringinghurst, Indiana
Lux, David J. R. R. #5 Shelbyville, Indiana	Rollins, Richard R. 2501 32nd Street, S. E. Washington 20, D. C.
Martin, Paul W. R. R. #6 Terre Haute, Indiana	

Russell, John T.
c/o Stanley Davis
R. R. #2
Hagerstown, Indiana

Sakurai, Edwin Hiroshi
2715 Tantalus Drive
Honolulu 13, Hawaii

Sanders, Fred V.
R. R. #2
Hazleton, Indiana

Schultz, William F., Jr.
R. R. #2, Box 44-A
Brownsburg, Indiana

Scott, William B.
Billingsley Building
Greenwood, Indiana

Sheller, Donald F.
605 College Ave.
Culver, Indiana

Sherman, Thomas L.
Alaska Native Clinic
Fort Yukon, Alaska

Shideler, Peter L.
2334 North Delaware
Indianapolis, Indiana

Shupe, James A.
2628 West 17th Street
Indianapolis 22, Indiana

Staggs, Stephen D.
289 Roycroft Blvd.
Buffalo 26, New York

Stamper, Stephen W.
3060 North Meridian Street
Indianapolis, Indiana

Ullrich, Thomas W.
4328 Arcadia Street
Indianapolis, Indiana

Wentz, Clarence E., 1st Lt.
Brooke Army Hospital
San Antonio, Texas

Witham, Robert J.
124 East 32nd Street
Indianapolis, Indiana

Wolfe, Nelson L.
Alaska Native Hospital
Barrow, Alaska

Wright, Robert A.
c/o James P. Wright
8750 S. W. 21st Terrace
Miami, Florida

Graduates we were pleased to welcome
"back home" and who signed our "Guest
Register" in the past year include:

Class of 1907:

Dr. Charles A. Eller
403 Pine, S. W.
Albuquerque, New Mexico

Class of 1925:

Dr. Joseph L. Mitchell
105 East Union Street
Liberty, Indiana

Class of 1926:

Dr. C. G. Lundy
Mollalla, Oregon

Class of 1929:

Dr. W. R. Merritt
215 South Second
Elkhart, Indiana
Dr. Stanton H. Wilkes
726 7th Street
Columbus, Indiana

Class of 1934:

Dr. Howard L. Imboden, II
945 Salem Avenue
Dayton, Ohio

Class of 1935:

Dr. Wm. E. Smith
1426 East Main Street
Richmond, Indiana

Class of 1942:

Dr. A. K. Bush
Rossville, Illinois

Class of 1943:

Dr. Melvin M. Klotz
1005 96 St.
Miami Beach, Florida

(Continued on page 49)

Who's Who and Where ???

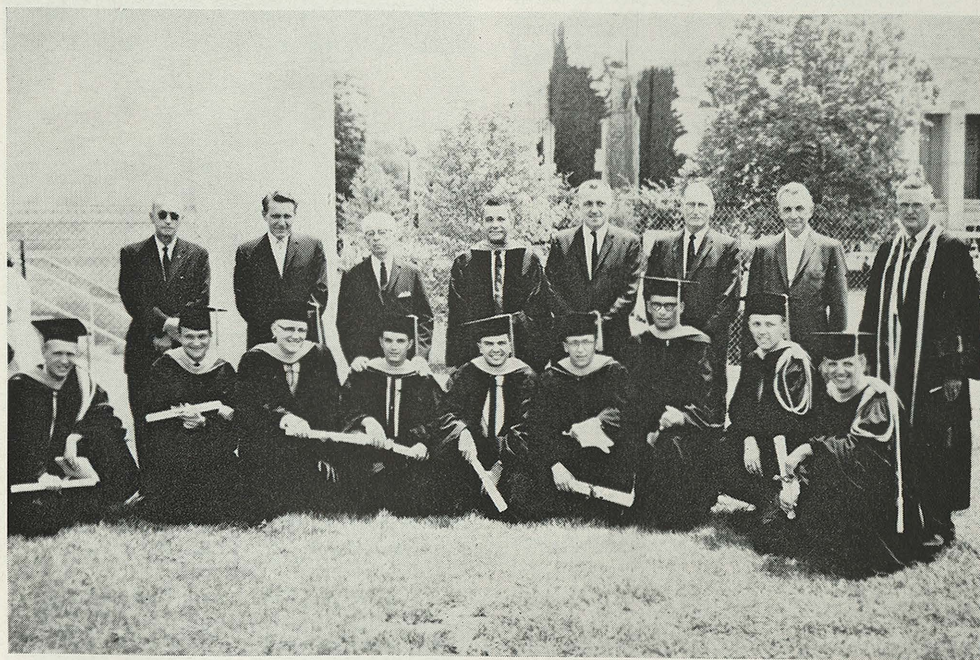
Dr. Paul Starkey

In this same issue of the Alumni Bulletin a year ago, recognition was given to the fathers of eight graduates of the Class of 1961 of Indiana University School of Dentistry, who were also graduates of IUSD. Your columnist, who met with fathers and sons following commencement, and reported to you concerning this event, commented in the August, 1961 issue: "As these boys introduced me to their fathers, I commented that Dad deserved a great deal of credit and should be congratulated. I was touched with the sincerity of each of the sons as they readily agreed, while placing their arm around Dad's shoulder or patting his bald head. It was a very warm experience for me on two counts: one, because of the sun and the other because of the considerable amount of joy, pride and unspoken understanding between fathers and sons."

Apparently you appreciated this report because many more comments were received relative to the column in this particular issue than any other since I inherited this pleasant chore from Dick Jennings. Therefore, it seems like a good idea to again give you a report on fathers and sons from this year's graduating class, not only because you enjoyed it, and I enjoyed it, and they enjoyed it, but because it gets me "off the hook" in my quest for material for this column. As a matter of fact, I have hopes of making this an annual report following commencement.

You should know that the quotation from last year's column which you just read, again applies to this group on all counts, including the one of the sun.

In the Class of 1962, there were 15 graduates whose fathers were also gradu-



Senior graduates grouped with fathers who also graduated from Indiana University School of Dentistry.

ates of IUSD. Two of these fathers, Dr. William E. Barb and Dr. James O. Hasler, are deceased.

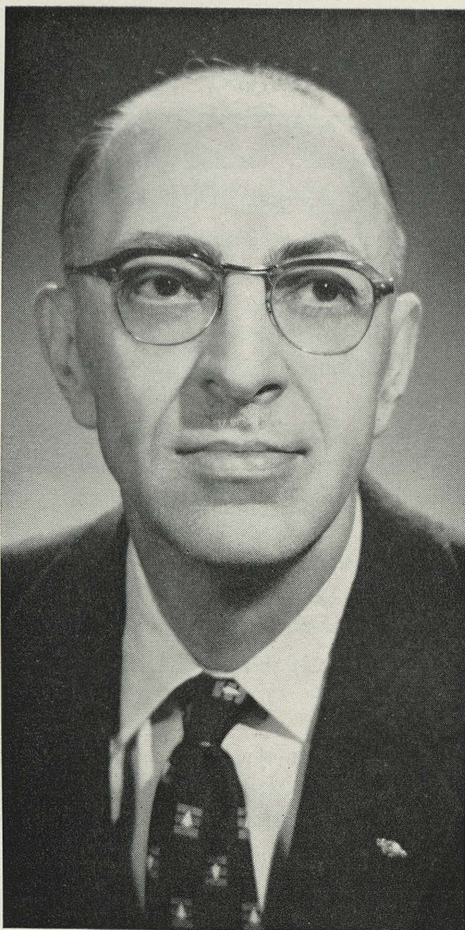
It is interesting to note that at the Honor's Day Program, held June 3, 1962, many honors and awards were received by these sons. Four of them: Richard Barb, John Hasler, William Hohlt and Howard Imboden, were presented fourrageres, as these men graduated with honor. These four also were elected to Omicron Kappa Upsilon, an honor which had been bestowed on three of their fathers at the time of their graduation.

Edwin Sakurai received a Certificate for Proficiency in Dental Medicine and also, the John W. Geller Award; Howard Imboden, a C. V. Mosby Award and an Indiana State Dental Laboratories Association Award; Richard Barb, an Indiana State Dental Laboratories Association Award; and Richard Buchanan, an American College of Dentistry Award. The International College of Dentists Award was given to Stephen Stamper.

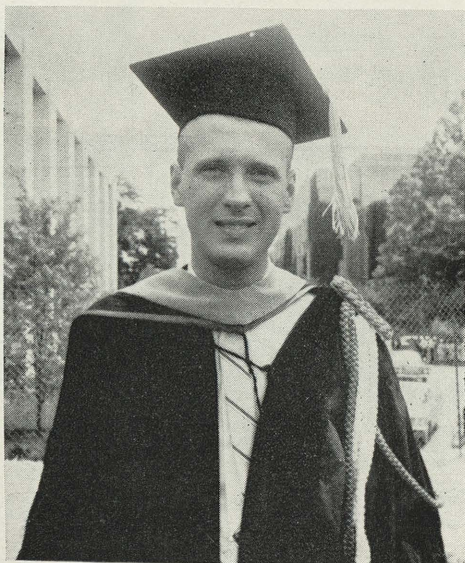
Dr. William E. Barb, who passed away January 7, 1959, would have been proud, indeed, to have witnessed the graduation of his son, Dr. Richard E. Barb. Dad graduated from the Indiana State Dental College in 1926. He was a member of Psi Omega Dental Fraternity, Omicron Kappa Upsilon, the American Denture Society, the Pierre Fauchard Academy, and the Indianapolis Dental Society of which he was a past president. He was also a president of the Indiana State Dental Society and served very diligently in several capacities for more than fifteen years. He served as state delegate to the national meeting for the ADA on several occasions. At the time of his death, he was vice president of the American Academy of Implant Dentures and was vitally interested in this organization.

He provided a fine example for his son.

Dr. Richard expressed that by observing his father and appreciating his father's



Dr. William E. Barb

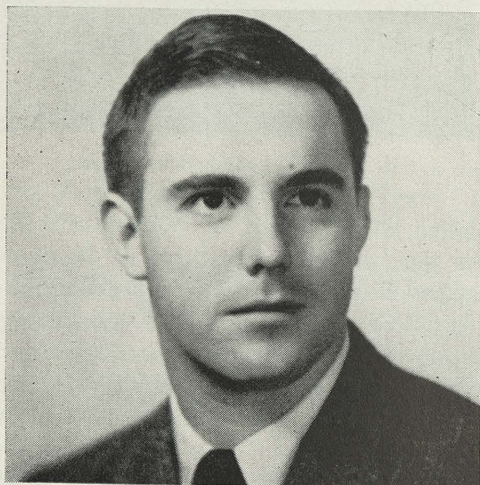


Dr. Richard E. Barb

deep interest in the profession, his decision to study dentistry was made.

Richard will enter the internship program in Oral Surgery at Robert S. Long Hospital, Indianapolis.

Dr. James Orel Hasler, father of John F. Hasler, completed his career on January 21, 1960. He was a graduate of Purdue in 1921, having majored in Pharmacy, and graduated from IUSD in 1927. He was a member of Xi Psi Phi Dental Fraternity. Practicing in Union City and Liberty, Indiana until his death in 1960, he was a member of the Eastern Indiana Dental Society and past president and secretary of that organization. Dr. Hasler's widow, Mrs. Helen Hasler, now resides at 140½ Mill Street, New Palestine, Indiana, where she teaches fourth grade.



Dr. John F. Hasler

Dr. John F. Hasler will enter the United States Public Health Service, Outpatient Clinic, Philadelphia, Pennsylvania. John's father would have been quite proud of him.

Dr. Paul Nichols graduated from IUSD in 1924. Beginning his practice in Worthington, he moved to Terre Haute in 1926, where he still practices. His hobbies include fishing and bowling. Son John Lee Nichols says: "Although Dad never



**Dr. Paul Nichols and son,
Dr. John Lee Nichols**

tried to influence me towards dentistry, I am sure that he is more than pleased with my choice. He certainly was the driving force behind my education and once when I decided to quit school and enter the service (thinking I had all the schooling I needed) he convinced me to continue towards a degree. Needless to say, I will be forever grateful.

"I enter the Air Force in August, 1962 and after two years, plan to return home to practice with Dad."

The father of David A. Kirchoff, Col. Arnold W. Kirchoff, graduated from IU SD in 1937. In 1941, he entered the U. S. Army. After World War II, he entered private practice for six months, then returned to the regular army where he has served since. He is currently stationed at Valley Forge General Hospital, where he is the Post Dental Surgeon.

This is a "family of dentists," as Colonel Kirchoff's brother, Lt. Col. Wayne F. Kirchoff, is also a dentist and graduated from IUSD with the *great* class of 1943. Col. Kirchoff also has a younger son, Rodney M. Kirchoff, who will be a senior at IUSD this year. David's wife

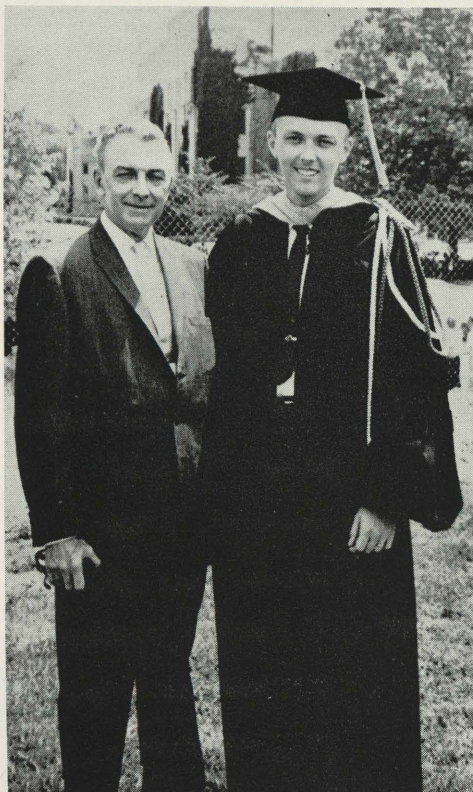


Colonel Arnold W. Kirchoff, D.D.S.
and Dr. David A. Kirchoff

is a dental hygienist and graduated from IUSD in 1960.

When questioned about his father's influence upon his decision to study dentistry, David said: "I was not consciously influenced by my father to study dentistry. I first became aware that there might be a future in dentistry for me when my father was Professor of Military Science and Tactics at the University of Oregon Dental School in 1952, and when I was a freshman in high school. I am entering the U.S. Army as a First Lieutenant in July and quite possibly will try to follow in my father's footsteps. My first duty station will be Schofield Barracks, Hawaii."

Dr. Howard L. Imboden, II, after receiving a degree of Bachelor of Commercial Science, taught school for three years in the Industrial Arts Department



Dr. Howard L. Imboden, II and
Dr. Howard L. Imboden, III

of the Dayton Public Schools. He then attended Wittenberg University and matriculated in IUSD in 1930, graduating in 1934. Yes, it sounds like an indirect and long route to the dental profession, but he finally decided that dentistry was for him.

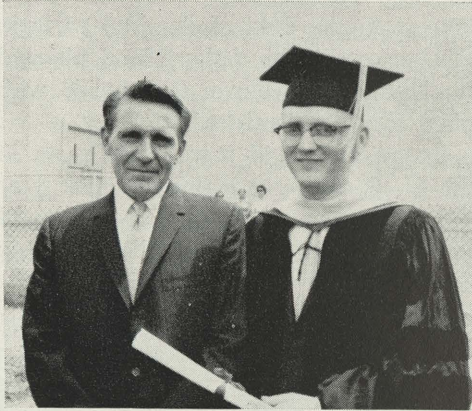
Dr. Imboden then practiced general dentistry in Springfield and West Milton, Ohio and for the last 22 years in Dayton, Ohio. He is a fellow in the International College of Dentists and a member of Omicron Kappa Upsilon.

His son says: "Dad did not try to influence me to study dentistry. In fact, he told me of the hardships which are encountered in school and practice."

Dr. Imboden, III is a First Lieutenant in the U.S. Army Dental Corps, and will be stationed at Valley Forge General Hospital in Pennsylvania for the next two

years starting August, 1962. It is interesting here to note that his commanding officer will be Col. Kirchoff.

"I chose to get my service obligation out of the way, get some experience, and consider whether I might want to practice (maybe with dad) or return to graduate school," said Dr. Imboden, III.



Dr. Wm. R. Shideler and son,
Dr. Peter L. Shideler

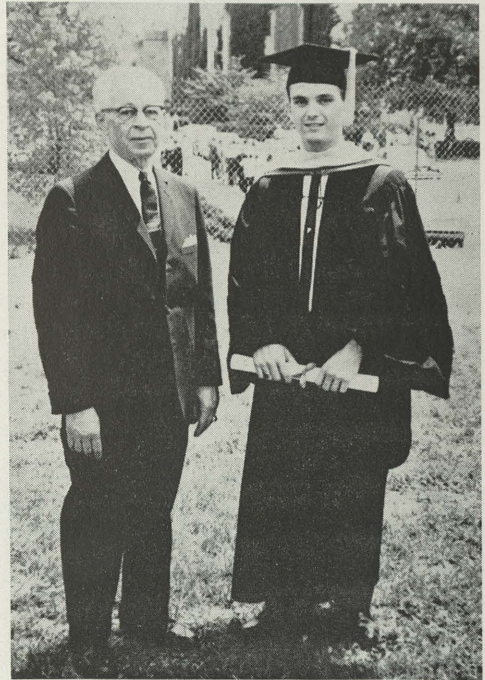
Dr. William R. Shideler graduated from IUSD in 1928. He practices in Highland, Indiana and has practiced for 34 years without a "shingle." His hobby is duplicate bridge and he recently returned from a trip to Hawaii where he visited with classmate, William O'Hare.

Son Peter L. Shideler was the youngest member of this year's graduating class. He plans to practice in Indianapolis until October when he will enter the USAF. After completion of his tour of duty, he plans to return and practice somewhere in northern Indiana.

Dr. Foster S. Sheller, father of Donald S. Sheller, is now practicing in Culver, Indiana. Dr. Sheller, a graduate from Indiana University Dental College in 1921, started his practice in Ft. Wayne. In 1931, he moved to Washington, D.C. where he practiced until returning to Culver in 1958. Donald, who graduated this year with a B.S. and D.D.S. degree, is entering the Navy for three years with an internship.

Dr. Sheller, Sr. claims Dan made his own decision to study dentistry, as did his sister, Patty, to study dental hygiene. Both worked in their dad's office as dental technician and dental assistant. This exposed them to the dental profession and created the motivation.

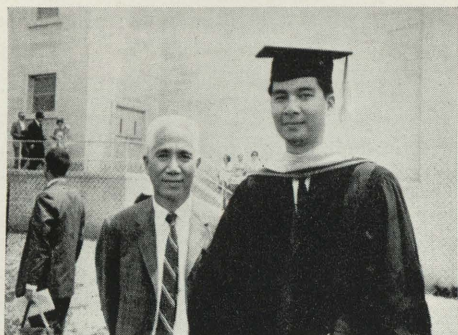
Mrs. Sheller, their mother, is a registered nurse, which makes the entire family a part of the profession dedicated to the healing arts.



Dr. Foster F. Sheller and son,
Dr. Donald F. Sheller

Dr. James M. Sakurai graduated from IUSD in 1929. He has been practicing dentistry in Honolulu, Hawaii ever since. In 1949, he returned to Indiana for his 20th class reunion. After 33 years, he was back again to see his old friends and classmates, and to observe the changes that have occurred in the dental school.

"My father tried his best to encourage me to study dentistry," said the son, Edwin, "especially at Indiana. After seeing the personal interest he took in his patients, and the appreciation which they obviously felt, I decided that I could bring more satisfaction in dentistry than



Dr. James M. Sakurai and son,
Dr. Edwin Sakurai

any other field of endeavor. As to the future, I hope to serve in the U. S. Air Force, then continue my education, or enter private practice."

Dr. Frederick A. Hohlt is Associate Professor of Operative Dentistry at IUSD, where he has been on the staff since 1948. His countenance is a familiar one as he has served as president of Indiana University Alumni Association, Theta Theta Chapter of O.K.U., and Hamilton Club (Indianapolis Study Club). He is,

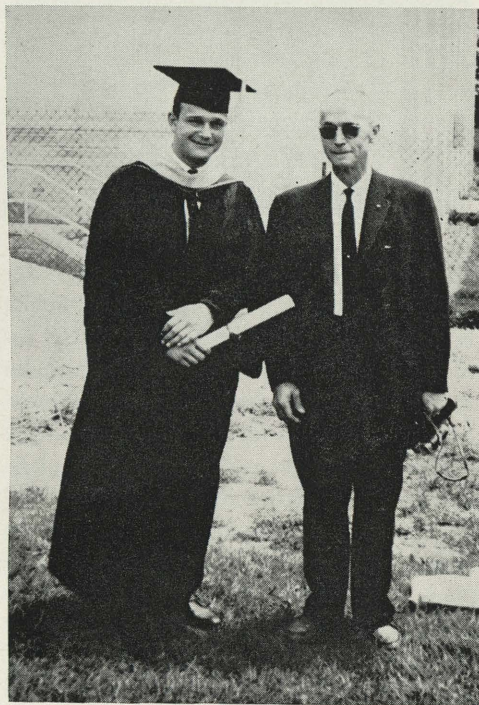


Dr. Wm. F. Hohlt and father,
Dr. Frederick A. Hohlt

also, greatly interested in athletics and has been very active in organizing summer baseball programs in his south side community. Besides a pony league baseball team, he finds time to play an occasional round of golf with a resulting score, which although not par, isn't bad for a grandfather.

"Son William seemed to develop an interest in the field of dentistry early in life," expressed his father, "and planned his high school courses to coincide with plans to study dentistry."

Dr. William will serve three years in the U. S. Navy, spending the first year as an intern at the U. S. Naval Hospital at Portsmouth, Virginia. Plans further into the future than that are indefinite.



Dr. Robert S. Buchanan and father,
Dr. Richard S. Buchanan

In 1930, Dr. Robert S. Buchanan was a member of the first graduating class of IUSD that required college work (pre-dental training) for entrance into dental school. After receiving his D.D.S., he entered practice in the office of his father, a physician, and became so in-

terested in general anesthesia that he took training in that field. Later, he decided to further specialize in oral surgery and after more training, limited his practice to oral surgery and general anesthesia. He is a member of many professional organizations and his hobbies include fishing, gardening and woodworking.

Dr. Buchanan arranged for his son, Richard, to observe major general surgery and major oral surgery before he entered Ohio State University and during summer vacations, Richard was employed as a surgical orderly in Lima Memorial Hospital, where his dad is a member of the oral surgery staff. Dr. Richard expressed that through these opportunities to observe and assist his father, the motivation to study dentistry came into being.

Dr. Richard Buchanan will practice dentistry at 2611 Breese Road, Lima, Ohio.

Born near New Carlisle, Horace Garoutte, Sr. was raised as one of six children in a farm family. He served in

the U. S. Navy during World War I, then entered college to train for the dental profession. After graduation from IUSD in 1926, he married Jane Walker, a girl from his home town and they have two children, Joan and Horace, Jr.

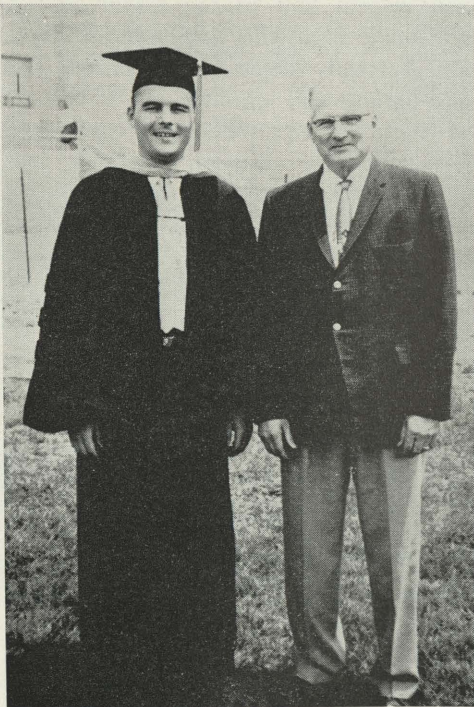
Farming has been his life-long hobby, and he maintains a home on his 40-acre farm a few miles north of Goshen.

It was 36 years ago that Dr. Garoutte began his practice of dentistry in northern Indiana, and this month he announced the association of his son, Horace, Jr. with him in practice in Goshen, Indiana.

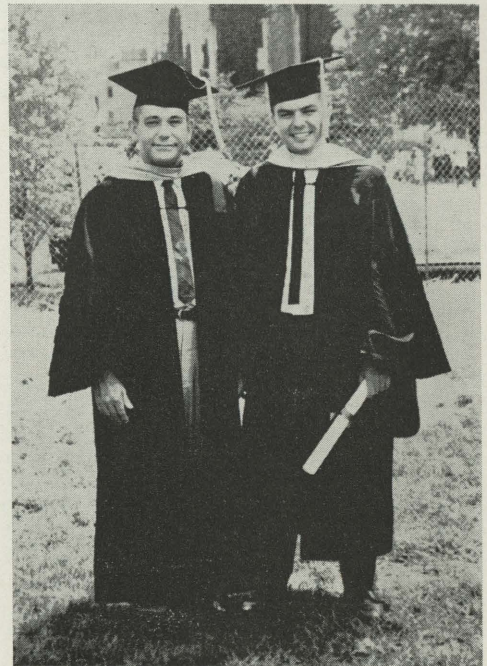
Dr. Garoutte, Jr. says that his father did not try to influence him in choosing his career in dentistry but feels that he is pleased.

Dr. William C. Stamper, father of Stephen W. Stamper, was born in 1910, a son of a dentist. He graduated from Butler University, majoring in chemistry and biology, in 1932. In 1937, he graduated from Indiana University School of Dentistry.

Dr. Stamper served as Lt. Col. in the Field Artillery during World War II, com-



Dr. H. R. Garoutte, Jr. and father,
Dr. H. R. Garoutte, Sr.



Dr. Willard C. Stamper and son,
Dr. Stephen W. Stamper

manding a battalion of Field Artillery in the South Pacific.

Dr. Stamper and his wife, the former Vera Gray Hinshaw, are the parents of two other sons, Sam, studying forestry at Purdue, and Scott, studying business at Butler. Dr. Willard's hobbies include collecting antiques, and cruising in his 28-foot cabin cruiser docked at the city dock at Patriot, Indiana.

Organizational affiliations include: Phi Delta Theta, Delta Sigma Delta, O.K.U., Columbia Club, White River Yacht Club, Mystic Tie F & AM, Murat Shrine, American Legion, and Hamilton Dental Discussion Group.

Son Stephen says that his father's influence was a motivating factor in his decision to study dentistry. He has been accepted for a Preceptorship with Florida State Board of Health, where he will be for one year. His plans beyond that time are indefinite.



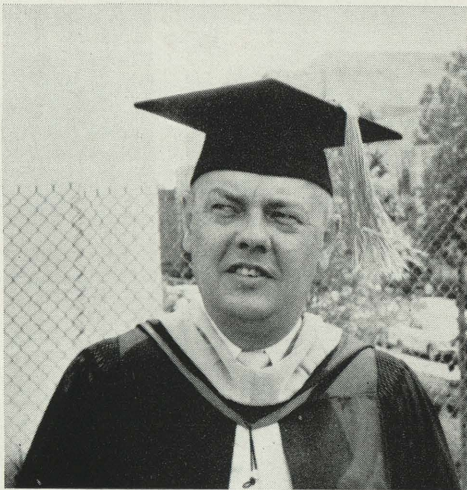
Dr. B. C. Kerkhove, Jr. and father,
Dr. B. C. Kerkhove, Sr.

Dr. Bernard C. Kerkhove, Sr. graduated from Indiana University School of Dentistry in 1927. He has practiced dentistry in Camden, a small town in central Indiana since that time.

Son Bernard, Jr. said: "My father didn't insist that I study dentistry. In fact, the subject was seldom discussed. He wanted me to make my own decision; however, I did not make the final decision to study dentistry until I had graduated from Purdue University and served in the armed forces for a short time. I am satisfied now that I made the right one."

Dr. Bernard C. Kerkhove, Jr. intends to continue his training at IUSD. He enters the pedodontic graduate program this Fall.

I hope that you have enjoyed reading this report on our graduates of 1962 whose fathers were also graduates of IUSD. Quoting again from my writing of August, 1961, "One who practices his profession in such a manner that his son will respect him to the extent that he will make it his life work must be proud and certainly deserves our sincere congratulations and admiration."



Dr. James F. Matlock

The extremely handsome man, whose photograph you see above, is that of Dr. James F. Matlock, a member of that

great class of 1943. This fellow, a graduate of the *great* class of 1943, was the only graduate of IUSD to receive a Master's degree this June. His major was oral pathology and minor, radiology, and his thesis was "A Serial Study of the Effects of Intramandibular Implantation of 3-Methylcholanthrene in the Albino Rat."

Dr. Jim was made Assistant Professor in Radiology in 1961, and has served part-time in a teaching capacity with the dental school since 1943.

In conjunction with Dr. Starkey, Dr. Matlock devised the Pedodontic Radiographic Survey. He also devised the Edentulous Radiographic Survey. Both of these surveys are used routinely in the radiology department at IUSD.

Dr. Matlock conducts a contest "Interpretation of Unusual Cases" for juniors and seniors, which is sponsored by Omicron Kappa Upsilon. The contest is held approximately once a month and cash prizes are given for the correct interpretation.

Dr. Jim resides at 4200 Devon Drive with his wife Eleanor, son James Craig, 15, and Mary Lynn, 8. His hobbies include good books and keeping his backyard swimming pool so clear that you can match coins and read them under six-feet of water. He invites every graduate of IUSD to come swimming any time.

Congratulations, Jim. The *great* class of 1943 is genuinely proud of you.

Once again, in preparing this column for you to read, I have had a lot of fun, had some heart-warming experiences and worked my writing fingers unmercifully. This June I asked Dr. Jack Carr to help me obtain the photographs at the commencement which you have just seen. I am grateful to him for his help and wish to take this means of thanking him.

May I issue you this invitation to write to me, giving me any news of you

or your classmates that would be of interest to our Alumni.



DR. TIMMONS' CLASS HONORS HIM

In the above photograph you may see approximately 40 of the 60 living members of the IUSD Class of 1925 gathered together at the opening session of the May meeting to honor their classmate, Jerry Timmons, President-Elect, of the American Dental Association, and Mrs. Timmons. Dr. Robert Taylor presented Jerry with a Bell and Howell Canonet 35 mm. camera, flash attachment and carrying case, and to Mrs. Timmons a twisted gold rope necklace and matching earrings, subscribed by members of the class.

Following the presentations, a reception-reunion was held from 2:00 to 4:00 in the suite of Dr. George Myers, President of Indiana State Dental Association. Refreshments were enjoyed and I understand that Dr. Maurice Healey, who arranged this happy affair, didn't anticipate these "old boys" would require so many ounces of refreshments. He tells me he had to send out for more.

We are making every effort to keep our mailing list current. Please notify the dean's office of any change of address.

Library

Mrs. Mabel Walker, Librarian

A SPECIAL ADDITION

In April 1948 reprints of published articles of the faculty of the Indiana University School of Dentistry were collected for an eight-year period, 1940-1947, with table of contents and author and subject indexes bound in one volume. There was a total of 36 reprints in the volume.

In June 1962 faculty reprints covering a twelve year period, 1948-1959, were bound in twelve volumes containing a total of 380 reprints. This total, incomparable to the total in the first volume of reprints, again bears out the statements made so frequently concerning the tremendous amount of research having been conducted the past decade in the field of dentistry.

Volume 1 of the twelve-volume set is a general collection containing 44 reprints numbered serially, a table of contents and author and subject indexes. Volumes 2 through 11 contain the reprints, numbered serially from 45 through 380, of individual faculty members whose publications were too numerous to be treated collectively:

- Volume 2—Dr. H. J. Healey
- Volume 3—Dr. M. K. Hine
- Volume 4—Dr. C. L. Howell
- Volume 5—Dr. J. F. Johnston
- Volume 6—Dr. R. E. McDonald
- Volume 7—Dr. D. F. Mitchell
- Volume 8—Dr. J. C. Muhler
- Volume 9—Prof. R. W. Phillips
- Volume 10—Dr. W. G. Shafer
- Volume 11—Dr. G. Van Huysen

Each of these volumes also carries a table of contents and author and subject indexes.

An index to the entire set is available in volume 12 with author and subject indexes listed separately as in the other volumes. The index reference to the reprints is by the serial number which is

stamped in the upper right corner of each reprint and on the spine of each volume.

In order to have more durable copy that will stand up under use through the years, Xerox copies were made of all typed pages in each reprint volume. This includes title page, foreword, contents and indexes. The Xerox work was done at the main library on the Bloomington campus and because three sets of the reprints were to be bound, consisted of 333 pages.

The current collection of reprints is as complete as it was possible to make it. In some instances reprints were no longer available or had not been made and neither were copies available of the periodical in which the article appeared. To avoid this deficiency in future bound volumes, periodical indexes and faculty bibliographies are now checked currently, so that reprints not received in the library can be requested and copies of the periodical carrying the article can be requested if the article has not been reprinted.

In most instances three printed copies of each reprint were obtained. But if this number could not be located, Thermofax copies were made to complete three sets.

With reprints for 1960, 1961 and 1962 available at the circulation desk in separate temporary binders, the publications of the faculty of the Indiana University School of Dentistry for the past twenty-two years are instantly obtainable. The reprints for the above years eventually will be bound, probably with fewer years to a set, in the same manner as, or similarly to, the current collection.

This has been an endeavor which has taken considerable time and work to accomplish. The library staff members who assisted in accomplishing it are to be highly commended. Two years ago, Miss Judith Hine, employed in the library for

the summer, spent many hours checking bibliographies to determine missing reprints in the collection and following through with request letters when there seemed to be a possibility of obtaining reprints. This phase of the work was continued in subsequent months by Miss Kay Record who joined the staff in September of the same year. Typing and proofreading the copy to be Xeroxed, a meticulous and tiring task, were done by Mrs. Pauline Chisholm and Mrs. Helen Campbell. This work was beautifully done and will be greatly appreciated by users of the reprint volumes.

As in previous issues of the Bulletin in conjunction with the Library column, abstracts of nine M.S.D. theses written in the Graduate School, Indiana University School of Dentistry follow.

A HISTOLOGIC STUDY OF THE INITIAL EFFECTS OF FORCE ON THE PERIODONTIUM OF THE RAT MOLARS, Abd El-Moneim Zaki, July, 1961

ABSTRACT

Thirty-six young male albino rats were used to study the sequence of histologic changes in the periodontal tissues immediately after the application of stress to the teeth. Emphasis was placed on the vascular changes in the periodontal ligament accompanying experimental tooth movement. Strips of dental rubber dam were inserted between the first and second molars on the left upper jaw. The right side served as a control. Six rats were sacrificed after each of these periods: 6, 12, 18, 24, 48 and 72 hours. Decalcified, serial, histologic sections were prepared and stained with hematoxylin and eosin. 14,208 sections were examined.

The experimental material showed a distribution of the pressure and tension areas suggestive of a tipping movement of all the molars. The initial tissue reactions increased progressively with time.

Hyalinization of the periodontal ligament, and medullary surface resorption were seen as early as 6 hours, while periodontal surface resorption was seen after 18 hours. However, tension exerted for 24 hours on the periodontal fibers in areas that were undergoing resorption due to physiologic distal drift was not enough to convert this resorption into apposition. On the other hand, appositional changes were halted in areas originally under tension after only 6 hours under pressure. Bone apposition was first noticed after 24 hours. Bone resorption was more marked than apposition after 72 hours. The surfaces of the medullary spaces adjacent to the resorbed alveolar bone showed osteoblasts. Around the osteoclasts on the bone and root surfaces undergoing resorption, mesenchymal cells and capillary proliferation were noticed. No signs of inflammation accompanied any of the tissue changes seen. The blood vessels on the tension side were large and most often in the middle of the periodontal spaces. The numerous small vessels on the pressure side suggested the speculation of a neurovascular mechanism, yet of unelucidated nature, which mediate between the pressure stimulus and the bone resorption reaction.

A STUDY OF THE BRINELL HARDNESS OF METALS USED IN CONJUNCTION WITH THE PORCELAIN FUSED TO METAL TECHNIC, Vu-Thi-Thin, June, 1962

ABSTRACT

A total number of 99 specimens of four different sizes and shapes were made out of seven different alloys. Two of them, the Ney B2 and G3, were used for comparison only. The other five alloys were those which are now available to be used in conjunction with porcelain-Ceramaloy, Microbond, Williams Harmony P. G., Ney P16, and Ceramco No. 1. These specimens were cast with the Thermotrol casting machine and the Kerr centrifugal

casting machine using an oxygen gas torch. The Microbond specimens were cast by the Austenal laboratory.

These specimens were mounted in clear acrylic in order to have their Brinell and Knoop hardness indentations made using the Baby Brinell and the Tukon Tester. Three indentations were made on each specimen in the as-cast condition and after each of the firing cycles were measured.

This study shows that there is a relationship between the Brinell and Knoop numbers measured but that this relationship was different for each of the alloys studied; that their hardness was affected by the difference in size and shape of the specimens; that both the firing cycle and the application of porcelain have some influence in the behavior of these alloys and affect their hardness. No satisfactory explanation was found for the different behavior of these alloys. Some factors that may enter into an explanation of their behavior such as crystalline structure and handling have been discussed.

FORCE VALUES FOR MAXILLARY ANTERIOR DEPRESSION, Donald G. Sloan, June, 1961

ABSTRACT

This study was one of the force values required to depress the upper incisors. The sample consisted of twenty children mainly in the mixed dentition. Excessive overbite was present in all the children.

Records were taken of all the children before, as well as after the completion of the study. These records consisted of full sets of models, 45° oblique cephalometric headplates, lateral cephalometric headplates taken at two-week intervals, and periapical radiographs. Pain response was recorded daily by the patient on specially prepared sheets, while mobility was checked at weekly intervals. Depression was also checked at weekly intervals.

A method was described for the depression of the anterior teeth by means of the base arch developed here at Indiana University. It consisted of an .018 x .022 edgewise wire running from molar tube to molar tube, with the depressive action occurring from the gingival activation of the wire. The anterior teeth were banded and treated as a segment by having an .021 x .025 wire passing through the brackets of the anterior segment.

The forces were measured in the mouth by means of the Hunter tension gauge, and the deflection by means of the Vernier caliper. The deformation was measured outside the mouth. From these values load deflection rate and actual force applied were calculated.

Incisor depression was determined mainly from the lateral cephalometric headplates; whereas, molar changes were determined mainly from the 45° oblique cephalometric headplates.

The clinical measurement of depression appeared to be inaccurate and it was not considered.

Methods were suggested which would improve the method if a following study of similar design should be conducted. Further investigations of the extreme force values investigated in this study should be undertaken.

A SERIAL STUDY OF THE EFFECTS OF INTRAMANDIBULAR IMPLANTATION OF 3-METHYLCHOLANTHRENE IN THE ALBINO RAT, James F. Matlock, July, 1962

ABSTRACT

A carcinogen, 3-methylcholanthrene, was injected into the mandible of 115 albino white rats (Sprague-Dawley strain). However, only 60 animals were used for histologic study, since 36 animals failed to exhibit any carcinogen in or near the mandible. The remaining 19 animals died during the study, however none of the deaths were attributable to neoplasia. The results of this project were divided into

intramandibular and extramandibular findings. The animals were sacrificed at 2, 4, 8, 12, 16, 20, 24, 32, 36 and 40 weeks following the implantation of the carcinogen in order that histologic changes in the tissues could be observed following implantation. Also, the mandibles receiving the implant were radiographed following each sacrifice interval.

The earliest extramandibular finding was a foreign body type giant cell surrounding the crystals of carcinogen. Another early observation was the formation of a connective tissue wall surrounding the implant. The greatest inflammatory response began at 8 weeks and continued through 36 weeks. There was little or no inflammatory reaction from the carcinogen that was implanted intramandibularly. The tumors that developed in these animals occurred between 8 and 36 weeks during the greatest inflammatory response.

A mononuclear phagocyte appeared at the 4 week level and persisted throughout this study.

The connective tissue fibers appeared to be swirled and confused and the connective cells exhibited a small and hyperchromatic nucleus, apparently prior to neoplasia.

Thirteen tumors developed from the extramandibular implants. Ten of these tumors were fibrosarcomas, two were epidermoid carcinomas, and one was a rhabdomyosarcoma. One of the fibrosarcomas was transplanted and re-transplanted and re-transplanted successfully.

The radiographic findings were negative unless neoplasia developed with subsequent osseous destruction.

AN ELECTROMYOGRAPHIC STUDY OF THE ORBICULARIS ORIS MUSCLE OF CEREBRAL PALSID SPASTIC HEMIPLEGICS, Robert R. Buckley, May, 1961

ABSTRACT

The orbicularis oris muscle was examined electromyographically to determine any differences in muscle activity

on the right and left side of the face. Included in the study were a group of seven cerebral palsied patients with spastic hemiplegia and a control group of seven non-cerebral palsied individuals. All fourteen subjects had Class I occlusion.

A six channel Polygraph Glass Model 5A was used in the study. Paired surface electrodes were placed over each quadrant of the orbicularis oris and electrodes were connected to four channels of the Polygraph. The paper speed was 25 millimeters per second and the gain of the amplifiers was calibrated at 100 microvolts per centimeter. The patients were requested to execute a series of commands which would necessitate voluntary and involuntary activity of the orbicularis oris. The commands involved: swallowing, holding the lips together, straw drinking, and others.

The results of the study demonstrated that in normal individuals the orbicularis oris functions symmetrically. However, in cerebral palsied spastic hemiplegics there is increased muscle activity in the orbicularis oris on the hemiplegic side. One may conclude from this finding that an imbalance of forces is present in the spastic individual acting on the dental arches of the spastic individual. Perhaps early bracing of primary teeth is indicated in these individuals to prevent serious malocclusions at a later age. Further study is needed in other areas of cerebral palsy to correlate the findings of the present study with such problems as tongue thrust and abnormal swallowing patterns.

A STUDY OF THE EFFECTS OF PROMOTING AGENTS ON EXPERIMENTAL CHEEK POUCH CARCINOGENESIS IN THE HAMSTER, Stephen F. Dachi, July, 1961

ABSTRACT

A series of experiments was carried out to study the effects of promoting agents on experimental cheek pouch carcinogenesis.

Studies to determine an adequate initiating dose of carcinogen suitable for use in promotion experiments were performed first. It was found that the minimum dose of carcinogen needed to initiate the carcinogenic process consisted of 15 applications of 0.5 per cent DMBA over a period of five weeks. Histologic examination of cheek pouch tissue exposed to smaller doses revealed the absence of any abnormal changes.

Among a number of chemicals tested for possible use as promoters, croton oil and methyl methacrylate monomer appeared to be ineffective. Tween 60 was used as a solvent for DMBA and with this combination a significant decrease in the latent period for tumor production was obtained. No morphologic differences could be detected among carcinogen-Tween and carcinogen induced tumors. A decreased survival time with tumor was found with the carcinogen-Tween induced tumors, but this was most likely due to the toxic effects of the agents employed rather than an increased carcinogenic potency.

Experiments to determine the influence of wound healing upon cheek pouch carcinogenesis also were performed and yielded negative results. The possible reasons for these findings are discussed.

The systemic administration of cortisone acetate resulted in a marked inhibition of cheek pouch tumor formation. The animals were found to be highly sensitive to this hormone.

It is concluded that whereas the cheek pouch epithelium of the hamster appears to be susceptible to the action of local and systemic promoting agents, its thick keratin covering, its extreme overall thinness and the absence of a portal of entry make it less than ideal as a tissue for the study of experimental tumor promotion. Nevertheless, the shortened latent period for tumor production observed with a carcinogen-Tween solution is consistent

with the requirements of the two stage theory of skin carcinogenesis.

TOPICAL AND SYSTEMIC EFFECTS OF SEVERAL FLUORIDE COMPOUNDS ON ALBINO RATS, James Darrell Higgason, July, 1960

ABSTRACT

This study was concerned with the topical and systemic effects of varying concentrations of fluoride compounds on rat tissue.

Animals in section one received topical applications of either sodium fluoride or stannous fluoride. Concentrations of sodium fluoride were 2.0% or 4.0% while stannous fluoride varied from 4.0% to 50.0%. Single, as well as multiple applications were made and animals were sacrificed at intervals of 1, 7, 14, 28 and 35 days. Microscopic examination of hematoxylin and eosin sections of gingivae revealed no response to sodium fluoride, while stannous fluoride brought about a darker staining phenomenon in the keratin layer of the epithelium. The concentration had only minimal influence on the intensity and/or duration of this phenomenon. Multiple applications showed very little, if any, influence on the reaction.

The animals in section two received daily stomach intubations of .01, 0.1, or 1.0 mg. of fluoride as either sodium fluoride, stannous fluoride, sodium monofluorophosphate, or methyltriethyl ammonium fluoride. Animals were sacrificed at intervals of 1 day, 1 week, 2 weeks, 4 weeks, 16 weeks and 22 weeks. Microscopic examination of hematoxylin and eosin sections of liver, kidney, stomach, duodenum, and colon revealed no cellular alterations attributed to the ingestion of fluoride. Retardation of growth was observed in the animals which received 1.0 mg. of fluoride as sodium or stannous fluoride.

THE EFFECTS OF A SCLEROSING SOLUTION ON CONNECTIVE TISSUE AND EXPERIMENTAL WOUND HEALING IN THE RAT, Mostafa Mohamed El-Khashab, May, 1961

ABSTRACT

A review of the voluminous literature on sclerosing solutions and wound healing failed to reveal any work investigating the relationship, if any, between the sclerosing solutions and the healing process of soft tissue wounds despite the basic similarity that exists between the physiologic healing process and the tissue response to sclerosing solutions. Previous experimental work on sclerosing solutions indicated that the local administration of sclerosing solutions at the site of fracture failed to stimulate or regenerate bone. However, marked fibrosis was noted in the soft tissues around the site of fracture.

The histologic changes in the subcutaneous tissues of the albino rat following the injection of Sylnasol and the possible stimulation of regenerating soft tissue wounds were studied. In both investigations, the histologic findings were compared with those due to benzyl alcohol and saline.

In the tissue response experiment, 56 male albino rats were used. Each of 21 animals received by subcutaneous injection in each of three different abdominal skin test areas a single dose of the remaining 35 animals received only two injections of Sylnasol and saline. Skin and subcutaneous tissues of the injected areas from the surviving animals were subjected to histologic examination at intervals of 1, 2, 3, 4, 5, 6, 8, 10, 12, 14, 17, 21, 28, 35 and 45 days.

The tissue response to Sylnasol and benzyl alcohol was manifested by an acute inflammatory reaction followed by fibroplasia which, after Sylnasol, was more marked and reached its peak at 8 days, with maturation into adult fibrous tissue at 21 days. Foci of amorphous calcifica-

tion were encountered in the 8, 10, 12, 14 and 28 day groups.

In the wound healing experiment, each of 60 male albino rats was subjected to three uniform surgical skin incisions in three different abdominal skin test areas. Each test area had been injected 4 days prior to the wound inducted with a single dose of 0.5 cc. of Sylnasol, benzyl alcohol or saline. At the end of the 4 day healing period (8 days after the injection of Sylnasol), all surviving animals were sacrificed and histologic studies of the wounds were made.

Sylnasol and benzyl alcohol appeared to retard the healing process as evidenced by lack of demarcation of the area of cellular reaction, a severe diffuse inflammatory reaction and minimal collagen formation. Foci of calcification were encountered in both Sylnasol and benzyl alcohol wounds with a noticeably higher incidence in the former.

A STUDY OF STANNOUS FLUORIDE THERAPY: THE OCCURRENCE OF PIGMENTATION ASSOCIATED WITH IT IN A FLUORIDATED AREA, Francis M. O'Carroll, July, 1962

ABSTRACT

Pigmentation associated with stannous fluoride therapy was investigated in children living in an area which had natural fluoridation water over the entire life span of the subjects. The stannous fluoride therapy consisted of (a) topical treatment each six months in accordance with the Muhler techniques; (b) a dental prophylaxis each six months using a stannous fluoride compatible polishing agent; and, (c) the regular use of "Crest" dentifrice.

The total pigmentation rate per tooth in the study group was 5.6%. The total pigmentation rate per surface was 1.3%, and the pigmentation rate per surface for "dark brown" and "black" was 0.2%.

Hyde's study in a non-fluoridated area gave a total pigmentation rate per tooth

of 27.8, and a total pigmentation rate per surface of 7%, with a pigmentation rate per surface for "dark brown" and "black" of 3.2%.

In both Hyde's study and in the study of the author, the pigmentation rate varied directly in proportion to the D.M.F. indices, and varied directly with the degree of oral hygiene of the subject.

In the study of the author it was noted that pigmentation showed to a far lesser degree in amount and in intensity than that shown in studies which had been conducted in non-fluoridated areas.

The School of Dentistry Fully Approved

Dentistry's official educational accrediting agency, the Council on Dental Education of the American Dental Association, inspected the School of Dentistry last year, and their report was indeed favorable. The Council stated that "the dean and his faculty be commended on the development and conduct of an exceptionally fine program" and "the administrative organization of the Dental School, both internally and also its relationship with the administration of the University, appears outstanding in character. The planning that Dean Hine has used in creating, building and educating his faculty is outstanding and worthy of special mention. The morale and spirit of the faculty seems to be of very high quality, as well as the spirit of cooperation that exists. A large percentage of the department heads have a national reputation in their respective fields. They appear also to be outstanding teachers, and their national prominence has not seemed to detract from their effectiveness as instructors in their own school, for they have not reduced the amount of time and effort that they spend on working on special syllabi, good lesson plans, and

having a good relationship with the students."

The dental educational program and the dental hygiene program were both fully accredited. In commenting on the report, Dean Hine said that it was of course gratifying that the Council approved our program and that it compares favorably with other dental schools. This is the first time the dental school had been visited for many years, although it is the Council's plan to inspect each dental school in the country every five to seven years.

Dr. Hine commented that the faculty merited the fine report given by the Council on Dental Education and deserves complete credit for the progress that is being made in dental education in Indiana.

BIOPSY SERVICE

(Continued from page 6)

The tissue report will be returned promptly. There is a \$2 fee for this service and a statement will be mailed at the end of the month. Biopsy mailing containers are available upon request.

TABLE 1

Neoplasms Diagnosed During 1961

BENIGN	NUMBER OF CASES
Papilloma	60
Fibroma	121
Hemangioma	11
Lymphangioma	5
Lipoma	9
Myxoma	2
Neuroma	4
Neurilemmoma	1
MALIGNANT	
Epidermoid carcinoma	27
Carcinoma-in-situ	3
Salivary Gland tumors	7
Leukemia	2
Reticulum cell sarcoma	2
Osteogenic sarcoma	2
ODONTOGENIC TUMORS	
Ameloblastoma	12
Odontoma	9
Cementoma	5
Odontogenic cysts	209

A Biographical Sketch of Ivan A. Welborn

(continued from March, 1962 issue of the Bulletin)

Three attorneys occupied the office next to my laboratory in The Bank of America Building here in Whittier. The junior member of the firm was an honest, intelligent, and very hard working young man. His two partners were pleased with his work, and the office personnel confidently predicted he would prove to be an exceptional attorney. It was always pleasant to be greeted in the corridors by his friendly "hello". The young attorney's name is Richard Nixon.

During the years of the second World War ours were the same problems and anxieties common to all the nation. Our two sons entered Naval service and we have never ceased to be grateful they returned safely to us.

During the war years, we in the laboratory continued to try to meet the increasing demands upon us. Dental technicians continued to be drafted at such a rate that finally official representatives of the American Dental Association were forced to go to Washington to seek methods of deferment. This was the first time the American Dental Association ever gave official recognition to the existence of dental technicians as a group.

After the war I had "had it." I do not claim to be an expert but I do believe in many cases it is harder to stay home and "sweat out a war" than to fight one. Neither of my sons had any desire to become dental technicians, thus I agreed to manage the laboratory for a group of five dentists who were consolidating their offices in Pomona, California. Two of these men were students of Dr. House. This group consisted of about twenty persons. For about three years, in addition to my laboratory responsibility I was responsible for the X-rays taken in the office. Our equipment was installed under the supervision of Mr. Franklin McCormick. His son, Dr. Don McCormick gave me instruction in their method of its use. For dental X-rays they used a 36 inch target distance, the proper use of which I found to be somewhat a challenge at first, but the diagnostic value of the pictures was superior to many of those frequently seen. There are certain advantages in a group practice, but not too many persons are temperamentally suited for such methods. I have always enjoyed my associations with dental offices more than the problems inherent to the operation of a commercial laboratory.

Late in 1952 I was very happy when Dr. James E. House, the youngest son of Dr. M. M. House, joined our offices in Pomona. He had been in and near a dental office all of his life. He was a dental corpsman in the Navy but did not receive his degree in dental surgery until after his Naval release following the war. He inherited his father's interest in dental progress and is very capably continuing the high standards of dental service set by his father more than fifty-five years ago.

June 1953 found me working each day as usual, but one night toward the end of the month the "roof fell in." Edna called a nearby medicine man who had me in the hospital within the hour. With five days under oxygen, during which various medicine men administered standard brews, together with potent incantations and voo doo rites, the evil spirits were exorcised. I began to take more of an interest in this world than the next one. The verdict was coronary. Thirty days in bed gives one an entirely new perspective toward life and its aims. Many helpful persons connected with the hospital informed me a person with a coronary could go on living a normal life. The thing they omitted was that this P.C. (post coronary) life must of necessity bear little resemblance to the former one. The first thing to impress me was how much is known about the treatment of such conditions up to a certain point and beyond that how little. All of which emphasizes the need for continued research in this challenging field. While I was in the hospital the decision was reached to close the Pomona office. Dr. Jim was joining his father in Whittier, and I was doubly pleased when both of them asked me to join them there.

As soon as I was out of the hospital Dr. M. M. House asked Edna and me to live in his house in Whittier while he and Mrs. House made a trip to Alaska. Dr. House had had a heart disturbance some years previously and occasionally since. He advised me how to compensate physically and how to make the necessary psychologic adjustment. Again I found his help to be most valuable. It was good to be back again in familiar surroundings. In about three months I found I could safely carry a partial work load.

In November 1958 I took the certification examination conducted under the direction of

the National Dental Laboratory Association. It was my good fortune to be granted a certificate in each of the five laboratory classifications. The good but hard work so many have done over the past few years within the American Dental Association and the N.A.D.L., to make national certification possible is undoubtedly a great step forward. Under the leadership of the A.D.A. the laboratory group achieves a friendly relationship toward dentistry, while still remaining in proper perspective to it.

In April 1959 Dr. M. M. House passed away. His passing leaves a void in the lives of many of us who knew him so well. It has been one of my life's happy privileges to have had him as my teacher, counselor, and friend.

A group of Dr. House's students had been meeting with him each month until almost the month of his death. Shortly after his passing this group of dentists, some of whom have been attending regularly for twenty-five years, formed the M. M. House Dental Study Group. It was indeed a cherished privilege to me when they voted me a life membership in the group. The responsibility for the reorganization had fallen upon the very able and capable shoulders of Dr. Jim House. Certainly his father left him and the entire group a legacy of material sufficient to challenge the capabilities of a group more talented than most of us.

During the past year this group has given an integrated group clinic before our local district dental society, the Southern California State Dental Association, The Pacific Coast Dental Conference in Portland, Oregon, and the American Dental Association here in Los Angeles. In the immediate future it is planned that several avenues of teaching and development shall be explored.

So many have contributed so much to help me along life's pathway. I have always been particularly conscious of the direct and indirect help extended by organized dentistry. Study club work by its very nature makes for a close personal relationship. From almost every one of the several hundred with whom it has been my privilege to be associated, I have received some benefit. From some it was stimulation for new goals and more knowledge, from others it was a desire to better express and use the knowledge already possessed. I sincerely wish it were possible to pay tribute to each of them by name but such is not possible. The almost paternal interest Dr. and Mrs. Frank Hamilton expressed all during their lives in the welfare of my family and me was most helpful. The warm friendship Edna and

I and the boys have enjoyed these many years with Dr. and Mrs. Johnston is one that rarely occurs during a lifetime.

To my wife also belongs a particular vote of thanks. If she had not been willing to assume far more than a fair share of family responsibilities I could never have devoted so much time to study and training in addition to my work.

Seeing this long record written for display reminds me of the time I was helping Dr. Howard Raper meet a publication "deadline". The article used some personal references and when we had finished Dr. Raper said, "My life has been SO messy."

I now find myself working full time and enjoying my work to its fullest extent in the office of Dr. James E. House, who practices general dentistry. We are both helped by his wife, Ruth, whose keenness and enthusiasm for dentistry is a source of stimulation to both of us. They have three fine sons whom I predict will also become professional men.

Much happiness and success to each of you. My hope for each of you is that in achieving these goals, you have as much fun as I have had.

REFRESHER COURSES

(Continued from page 5)

April 23, 24, 25, 1963: REFRESHER
COURSE ON DRUG THERAPY IN DENTAL PRACTICE.

This course will be presented by the dental school faculty assisted by representatives of the Council on Dental Education of the American Dental Association, Cook-Waite Laboratories, Eli Lilly & Company and Butler University School of Pharmacy. In each specific classification of drugs discussed, there will be two or three short presentations; one to establish the diagnosis and indications for the drugs to be presented. The pharmacodynamics of drugs will then be presented followed by a third discussion of the toxicology, side effects and treatment. Qualified photos and prescriptions will be projected as these discussions progress.

Class and Fraternity Notes

JUNIOR CLASS

Following our successful Christmas party in conjunction with the dental hygienists for the children of the Christamore House, the class had high hopes for many successful gatherings during the second semester. Unfortunately we had not considered the drastic change in schedule from our first semester, and our social calendar consisted of one stag party approaching the end of the semester. The class had all they could handle with the scheduled curriculum, national boards, and exams. About one-fifth of the class is actively participating in the clinic during the summer session, while the rest have gone home to take a job or vacation.

We are now making plans for a class outing, dinner, and dance during the early Fall to start our Junior year.

John Parsons

XI PSI PHI

Much work is being done on our house this summer. We are completely renovating our laboratory facilities and basement in general. This winter we had all of our equipment completely reconditioned, so now we have started to remodel our lab, so that we will have a good place to use this equipment. We have installed 40 feet of lab benches (4 feet wide), and approximately 30 feet of formica cabinets with sink and new plaster bins installed above. Of course we still have the old marble top table which is indispensable for pouring up models. We could never do without this relic, but all of the rest of our benches have been junked. We have also just recently acquired a new casting cabinet which is being built into one wall.

The rest of the basement consists of a newly built TV lounge, card room, and most important of all—a bathroom.

We have re-wired the entire basement and have installed an AM-FM sound system. We would like to extend an invitation at this time for you to come and inspect our improved facilities.

We would like to take this opportunity to extend our congratulations to Dr. Robert Bogan. He was voted the most popular instructor of the year by the graduating senior class.

We held elections in May. The officers are.

President—Charles A. Hollar
V-President—Frank R. Faunce
Secretary—Thomas V. Doty
Treasurer—James Bayley
Editor—David C. Lind

Our address is 1301 W. Michigan.
We wish you a very good summer.

David C. Lind, Editor

ALPHA OMEGA

The Alpha Gamma chapter held their annual senior farewell banquet in conjunction with the Indianapolis alumni chapter on the 19th of May at the Broadmore Country Club in Indianapolis. The three graduating seniors honored were Michael Gross, Myron Kasle, and Bernard Newbauer. Dean Hine was the speaker for the occasion.

The evening was highlighted by a presentation to Dr. Hine of a portrait which the Indianapolis alumni chapter commissioned from Bradford Lambert, a local artist. This portrait was done without the knowledge of the Dean from a photograph supplied by Mrs. Hine. Needless to say the Dean was quite surprised and we hoped pleased by this token of appreciation from Alpha Omega for the work he has done for Indiana University School of Dentistry.

Burton L. Siegel



Dr. Edwin Pollack presents Alpha Omega Award to William F. Schultz for his four-year outstanding scholastic record.

PHILOSOPHY

(Continued from page 9)

buccal view, lingual view, and proximal view, is recommended.

3. Type of metal to be used—gold or chrome. If your choice is gold, tell the technician which brand and hardness.
4. Type and placement of major connector. If this is to be a lower lingual bar, the inferior border should be marked on the master cast. Upper partials may have an anterior or posterior palatal bar, or both. The rugae generally dictate the placement of the anterior bar, and we know that the posterior palatal bar should be slightly anterior of the vibrating line. The vibrating line is virtually impossible to define on a stone cast. This should be marked on the cast by you.
5. Indirect retainer. Will this case need a lingual web, a Kennedy bar, or perhaps an occlusal rest or incisal hook.
6. Type of teeth. Porcelain or plastic denture teeth—or tube teeth with metal saddles.
7. Shade of teeth and mold.

If, for instance, the tuberosity is in close relationship to the retro-molar pad, the dentist may want to use metal coverage, as acrylic cannot be finished nearly as thin as metal.

The information on your prescription will naturally vary just as each case will vary. Everything that has been listed is merely a suggestion as to how much information can be transmitted to the laboratory.

ELECTROPLATING

(Continued from page 9)

not plating, the impression should be removed, washed, dried and re-metallized with silver powder. The impression, after plating, is removed and filled with a core of stone.

If a quadrant or full-mouth impression is being plated, the cathode holder can be an insulated copper or silver wire contacting the impression at some non-critical area. The wax collar is not necessary on the quadrant impression. Metallize only those areas which are desired to plate, brushing on silver powder leads to the wire cathode. When the impression is examined after 30 minutes, these "leads" can be waxed over so that plating will not continue in this area.

PLATING (SILICONE)

This procedure, at the moment, is not to be recommended because of the distortion of the impressions during plating. However, if it is done then there is somewhat less distortion by copper plating than silver plating.

The procedure is essentially the same as for silver plating except that an acid copper sulfate bath is used rather than the basic silver cyanide and the anode is copper rather than silver. It is also desirable to have a greater anode to cathode distance. Eight to twelve inches are better than the normal four- to six-inch difference.

It may be desirable to metallize with a copper or bronze powder rather than a silver powder. Thirty milliamperes/sq. cm. is the current to be employed.

DR. VOLKER

(Continued from page 13)

United States he has served as a consultant for medical sciences to the states of Arizona and Colorado. He has likewise been a member of three United States Public Health Service committees, advisory council for the W. K. Kellogg Foundation and was a member of the committee on dental research of the Survey of Dentistry. His many honors and citations include past-president of the

International Association for Dental Research and Fellow in Dental Surgery of the Royd College of Surgeons.

The dental school alumni wish him every success in this new assignment and congratulate him on this distinct honor.

HONOR DAY

(Continued from page 16)

David L. Hollingsworth
Howard L. Imboden, III
Richard R. Rollins
William F. Schultz

Certificate to sophomore with outstanding record in freshman year:

Kenton S. Hartman

Fourrageres to students with High Honors:

Richard R. Rollins
William F. Schultz

with Honor:

William C. Amos
Richard E. Barb
John R. Haslem
John F. Hasler
William F. Hohlt
David L. Hollingsworth
Howard L. Imboden, III

presented to dental hygienists with Honor:

Audrey Gotsch
Judith Spivey

C. V. Mosby Awards for proficiency:

Oral Pathology—Clarence Wentz
Operative—Howard L. Imboden, III
Dental Materials—Norman E. Chamberlain
Prosthetics—James Bales
Dental Hygiene—Audrey Gotsch

Rossya Kaufman Award in dental hygiene for continued education:

Kay B. Robertson

Indiana State Hygienists Association
Award to hygienist showing greatest clinical proficiency in senior year:

Lois Stevens

John W. Geller Award:

Edwin H. Sakurai

International College of Dentists Award:

Stephen W. Stamper

American College of Dentists Essay Award:

Thomas W. Ullrich

Dental Hygiene Honorary Society Membership:

Audrey Gotsch
Judith Spivey

Following remarks by senior class president Fred Sanders and 2nd year dental hygiene president Audrey Gotsch, light refreshments were served.

ALUMNI NOTES

(Continued from page 28)

Class of 1947:

Dr. H. Holden MacDonald
743 High Street
Dedham, Mass.

Dr. William I. Lawrence
3989 Meadows Drive
Indianapolis, Indiana

Dr. Richard W. Moss
Milwaukee, Wisconsin

Dr. Rocco P. Nazzaro
896 E. 28th Street
Paterson, New Jersey

Dr. Jack D. Singer
14359 Michigan Ave.
Dearborn, Michigan

Class of 1949:

Dr. S. A. McIntosh
4204 North Meridian Street
Indianapolis, Indiana

Class of 1952:

Dr. E. H. Besch
San Antonio, Texas

Dr. John A. DuMond
1765 West 61st Place
Gary, Indiana

Class of 1954:

Dr. Glen S. Gardiner
5511 Plaza Drive
Fort Wayne, Indiana

Class of 1956:

Dr. Robert R. Clark
Jefferson Square
Lafayette, Indiana

Dr. George T. Jancosek
1427 121st Street
Whiting, Indiana

Class of 1957:

Dr. Paul W. Gilmore
723 Wagner Drive
Charleston, South Carolina

Dr. L. A. Gray
Davis Clinic
Marion, Indiana

Dr. Billy W. Sandefur
25 E. Gorge
Batesville, Indiana

Dr. George Von Mohr
421 N. 9th St.
Blythe, California

Class of 1960:

Dr. Robert P. Swieterman (MSD)
676 Mount Vernon Drive
Lexington, Kentucky

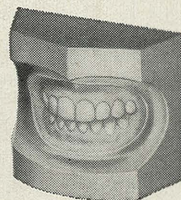
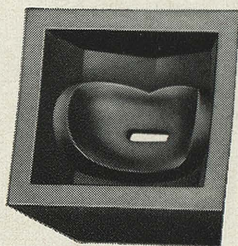
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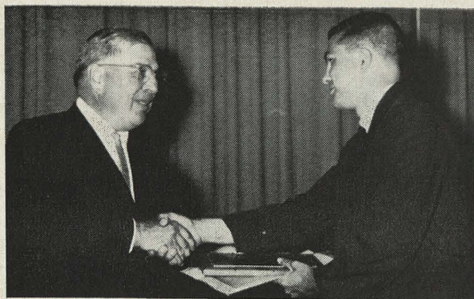
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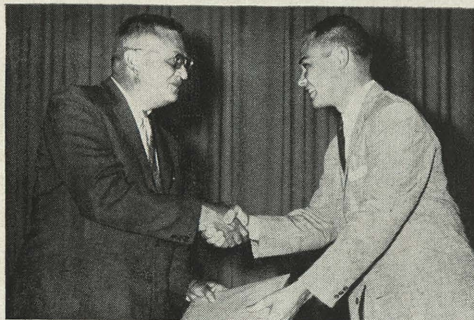
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15th Reunion of the Class of 1947, held during the annual meeting of the Indiana State Dental Association, May, 1962. The honored guest was Dean M. K. Hine. (Left to right, front) Hudson Kelley, Indianapolis; Billy Temple, New Albany; Albert Kazwell, Cedar Lake; Robert McKay, Vevay; J. David Singer, Dearborn, Mich.; Dean Hine; Thomas Adams, Cincinnati, Ohio; Anthony Fisher, Alexandria; Rocco Mazzaro, Paterson, N.J.; William Lawrance, Indianapolis. (Left to right, standing) Lloyd Nevel, Mishawaka; John Lindquist, Indianapolis; Roland Dykema, Indianapolis; Byrd Barr, Indianapolis; Fred Isaacs, Terre Haute; Robert Alber, Ligonier; Arthur Stine, Newcastle; Martin Walton, Knoxville, Iowa; Norman Alley, Coral Gables, Florida; Lawrence Lang, Muncie; James Roche, Indianapolis; Holden MacDonald, Dedham, Mass.; David Gephart, Anderson.

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