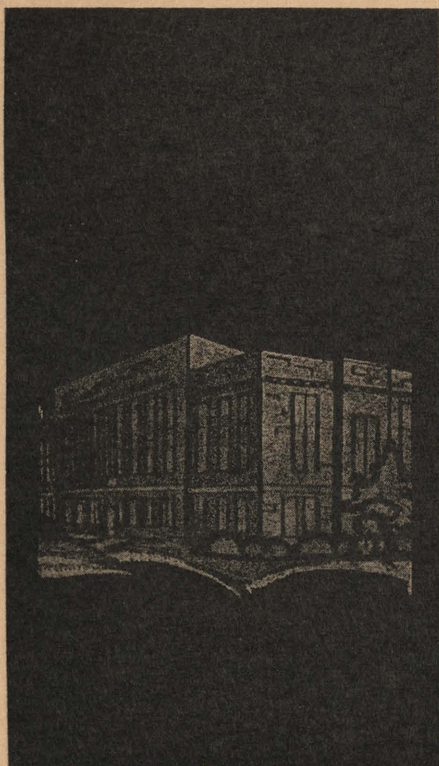

Alumni Bulletin

INDIANA UNIVERSITY



SCHOOL OF DENTISTRY

SPRING ISSUE / 1968

Indianapolis, Indiana

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Indiana University School of Dentistry ALUMNI BULLETIN

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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.

The Indiana University Medical Center, A Decade Ahead

Kenneth E. Penrod, Provost, Indiana University Medical Center

How will the Indiana University Medical Center look in 1978, as seen in the crystal ball of the campus planners? Will the changes be minor or appreciable? Will the growth in student body follow the pattern of Bloomington? Will there be significant changes in teaching methods and space utilization? These and many other questions have long been occupying the attention of a group attempting to define the future of health education in Indiana, as well as nationally, and to program the space and facilities needed to keep the Indiana University Medical Center in the forefront of new and exciting educational programs.

Physical planning for this campus has been easy for the last few years—totally devoted to efforts to catch up with the space needs that should have been provided long ago. For reasons that are too numerous (and perhaps too touchy) to mention, the various student bodies making up the Medical Center schools and divisions have been expanded considerably more rapidly than the physical facilities. Consequently, we now find ourselves operating in very difficult straits of inadequate facilities to achieve a full measure of the education, research and service we would like to provide.

Daylight is now apparent in this catch-up phase. Even the most pessimistic are thrilled to see the new adult hospital taking shape and to hear the heavy building equipment operating in front of the James Whitcomb Riley Hospital for Children. Meanwhile, several architectural firms are hard at work preparing the final drawings necessary for bidding on a major extension to the School of Dentistry, phase two of the University adult hospital, an entirely new School of Nursing, an underground high-

intensity radiation therapy unit, and a substantial addition to the Medical Sciences Building. In all, it is now estimated this construction yet to begin will cost approximately \$40 million. With the \$12.15 million appropriated by the 1967 General Assembly for capital projects at this center, together with funding from a variety of other sources, approximately thirty of the necessary forty million dollars now seems assured.

When space is a critically scarce commodity, the necessary time lapse between conception and occupancy is agonizingly long. Under the most favorable of conditions it will take five years before all of the above construction can be occupied. When such millennium does arrive it will permit renovation and conversion of some of the vacated space to be used for other purposes. Only then can serious consideration be given to expansion of current, or introduction of new, programs on this campus.

In addition to the facilities described above, two further projects of considerable importance are being contemplated. One is a research animal farm for care and handling of the growing number of species of research animals needed in the Medical Center projects. In present thinking, this development will likely take place about eight miles away on property formerly tilled as part of the State Department of Correction's Girls School at Clermont. The other is a building on which detailed planning has not yet begun, but which holds promise as the harbinger of things to come. I'm referring now to a data center—communications—educational resources building which ultimately will become the nerve center of the campus in Indianapolis, linking the many centers

(Continued on page 61)

Plans for New Building Being Finalized

M. K. Hine, Dean

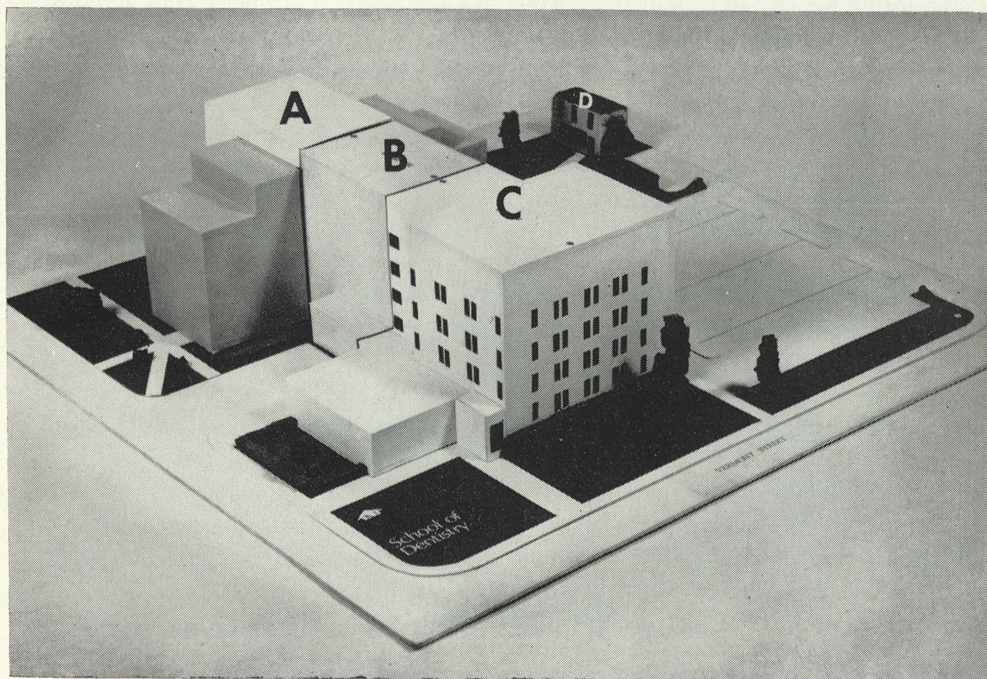
Faculty members have been working diligently all winter on details of the proposed new addition to the Dental School. It is hoped that construction can start on this 4½ million dollar addition early in 1969 and be completed for occupancy in the fall of 1971. This new building will give the School of Dentistry an expanded and completely modern dental education facility. In addition to expanded clinics and research laboratories, the building will house the sophomore dental students, making it easier to integrate the teaching of these students with that of the upperclassmen. The building will house markedly increased quarters for Oral Diagnosis, Orthodontics, Pedodontics, Crown and Bridge-Partial Denture and Complete Denture.

The new building will make it possible

to increase appreciably the size of the incoming classes for both dentistry and dental hygiene, and will allow increased emphasis on specialty training. The traffic flow will be greatly enhanced by a "communications tower" which connects the 1958 additions with the new facility. The building will also include more adequate student and staff lounges.

Just as soon as the building is completed, the original 1934 building will be almost completely renovated. This "Phase II" will probably be completed by 1973.

When the proposed new construction is completed and the new Preventive Dentistry Building is fully equipped, the dental educational and research program at Indiana University School of Dentistry should be one of which every alumnus will be proud.



A—Dental building completed in 1934 at a cost of \$319,000

B—1958 addition to the Dental School, 60% the size of the original building, at a cost of \$1,600,000

C—Proposed new addition to be only slightly less than the combination of A and B at a cost of \$4,500,000. Hopefully this building can be occupied by the fall of 1971.

D—Bea's!

Food Hints for Those with Dentures

*Gilbert LeVine Mellion and Ruth Berman Mellion**

[The following article is reprinted by permission of Dr. and Mrs. Mellion, I.U.S.D. Class of 1943 and Indiana University Class of 1942, respectively.]

At the turn of the century, there were about three million people 65 years or older in the United States. By 1960, the census showed 17 to 20 million senior citizens. Unfortunately, a substantial number of this group are wearers of full upper and lower dentures. Of course, there are many younger persons who also fall into this category. Therefore, the chances are you are either related to or acquainted with someone wearing dentures.

It is a credit to both the advancements of modern dental research and the perseverance of the patient that denture wearers do so well in the mastication of their food. But the problems encountered are best known to the patient and the dentist, who guide the individual through the difficult period of learning how to handle a diversified diet in order to meet nutritional requirements.

Many candidates for multiple extractions have been on self-imposed restricted diets because of insufficient or uncomfortable teeth. The problems experienced in the early stages of learning how to use dentures, superimpose further food restrictions on an already inadequate diet. The recommending of strained or junior size baby food is not only poor psychology, but over a period of time lacks sufficient bulk, and is not stimulating to the appetite.

The possibility still exists that the aged have different requirements for protein, or specific amino acids than younger individuals. But as far as is known now, the needs for nutrients such as protein, vitamins, and minerals, are not altered appreciably by age. The caloric needs, however, do decrease with the passing years.

Of course, caloric requirements are highly individual, but on the average, people need about 20 per cent fewer calories at age 65 than at 25.

For adults (55-75), the daily food requirements in the four basic food groups are:

Fresh milk or equivalent—2 or more 8 oz. glasses. Meat, poultry, fish group—2 servings per day. Vegetables and fruits—4 or more 4 oz. servings; a daily Vitamin C source and a dark green or deep yellow vegetable every other day. Breads and cereals—4 or more servings; a serving consists of 1 slice of bread or $\frac{1}{2}$ - $\frac{3}{4}$ cup of cereal.

With dentures extra chewing is required; the number of chews needed to prepare equal portions of food for swallowing has been estimated as double the amount required with natural teeth. It has further been estimated that the average biting power with dentures is about 27 pounds, in contrast to the approximate 110 pounds obtained with natural teeth.

Increasing Flavor

Although the taste buds are located in the tongue, there is an apparent loss of taste to the patient when the roof of the mouth is covered with a full denture. This apparent loss in taste can be somewhat compensated for by using herbs and condiments, and by serving hot foods sufficiently hot to increase the molecular activity, and thus make the patient more aware of the food smell to compensate for the apparent decrease in taste.

To increase the flavor and taste of food for the denture patient use onions, chives or parsley, as well as herbs such as bay leaves or oregano. The various salts, such as celery and garlic salts are good in

(Continued on page 61)

* Members of Connecticut Nutritional Council

Notes from the Dean's Desk...

Indiana University School of Dentistry's new Preventive Dentistry Research Building was dedicated on May 22. The dedication program was on the last day of the Indiana State Dental Association meeting and was devoted to considerations of the importance of preventive dentistry in the maintenance of oral health.

The program included talks by the following recognized leaders in dentistry:

Dr. Joseph Bernier, formerly in charge of the Army Dental Corps;

Dr. John Buhler, Dean of South Carolina Dental School;

Dr. Clifton Dummett, Director of the Dental Division of the WATTS program in Los Angeles and a member of the faculty of U.S.C. Dental School;

and Dr. Arthur Radike, well-known research investigator from the Procter & Gamble Company.

Students were also involved in this program, since the main speakers were introduced by their children who are

students at Indiana University School of Dentistry.

The program included a panel discussion on the application of preventive procedures to the successful practice of dentistry. Speakers were dentists in Indiana who have been active in preventive dentistry.

A tour of the one-half million dollar Preventive Dentistry Research Building was planned for the afternoon. This building has the distinction of being constructed without federal or state funds; a grant from the Indiana University Foundation made this building possible.

We wish to announce to alumni that one of the faithful employees in the Dean's Office, Mrs. Clara Benefiel, retired on February 29, 1968, after twenty-two years of most valuable and dependable service. Mrs. "B" was really one of the unsung workers of the Dental School, since she worked very quietly and efficiently compiling records, recording students' grades,



Photograph taken at the luncheon honoring Mrs. Benefiel, showing Mrs. "B" opening some gifts while Dean Hine and Mr. Benefiel look on.

etc. While she will be missed, everyone agrees that she has earned some rest!

Plans are being developed to start a Century Club among the alumni and friends of Indiana University School of Dentistry. These clubs have been very popular in many parts of the country, particularly in California, and since the membership is a "Century Note," have furnished dental schools with much-needed funds. The Century Club should be particularly attractive to residents of Indiana because a recent law makes it possible for an individual who gives \$100 to Indiana University to deduct \$50 from his state income tax as well as get credit for a gift of \$100 to an eleemosynary institution in the federal income tax report. Details will be announced a little later.

Those alumni who have seen members of our Dental Admissions Committee this spring have undoubtedly noted how concerned they are. Actually, every year it is difficult to select the members of the freshman class, but this year it has been

particularly so. We have had far more outstanding applicants than ever before and many competent individuals cannot be accepted because of limited facilities. Pressures are particularly great because those individuals not selected were almost invariably drafted. The committee members are to be commended for their careful and objective study of all of the hordes of applications that have been received.

Congratulations are due to many faculty members, including:

Professor Ralph W. Phillips, for his successful year as president of the International Association for Dental Research; Dr. H. William Gilmore for his fine performance as president of the national Omicron Kappa Upsilon; Dr. Joseph C. Muhler for receiving the International Association for Dental Research award of a plaque and \$1,000 for research in Oral Therapeutics (supported by Cook Waite Laboratories), and Professor Marjorie Swartz for receiving the Wilmer Souder award for the I.A.D.R.

Gift Presented to Union Building by Xi Psi Phi

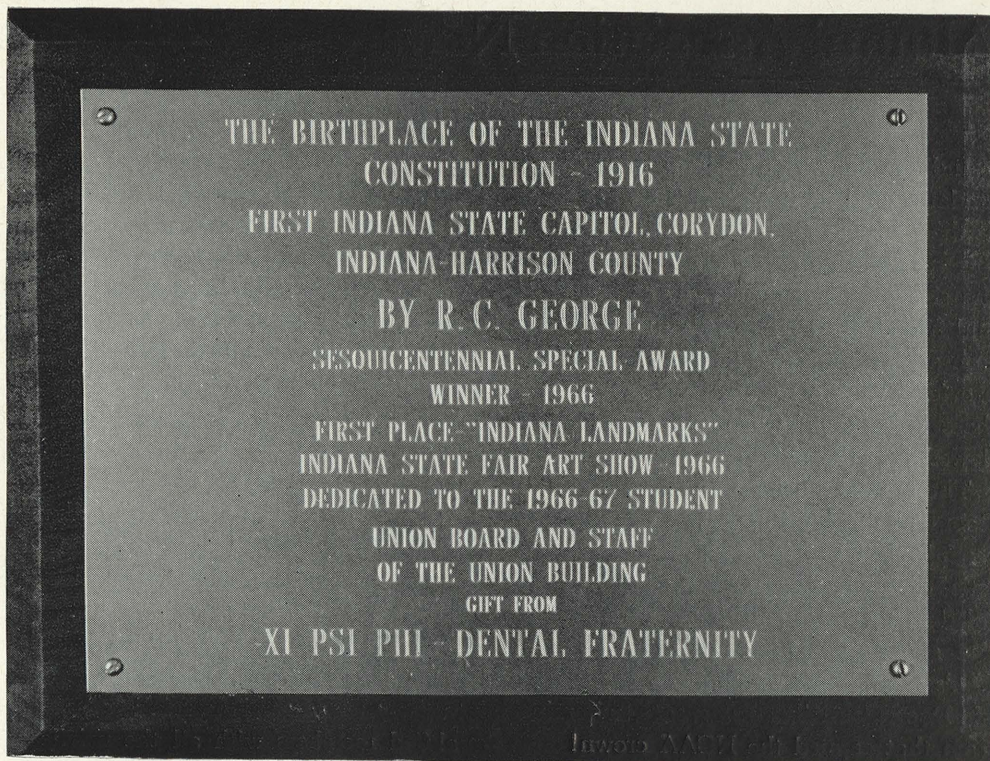
A prize winning painting of the first Indiana State Capitol at Corydon is now on display in the main lounge of the Student Union Building on the Medical Center Campus. A gift of artist Mrs. Ruth C. George on behalf of Xi Psi Phi Dental Fraternity, it is the first such presentation to the Student Union Board by a professional fraternity on his Campus.

Mrs. George's painting was awarded first prize in the "Indiana Landmakers" category at the 1966 Indiana State Fair

Art Show and was winner of the Sesquicentennial Special Award established by Lt. Governor Rock in honor of Indiana's 150th year of statehood. The birthplace of the Indiana State Constitution, the old capital represents an important landmark in Indiana history and culture.

Mrs. George, now deceased, lived in Lebanon, Indiana and specialized in Indiana landscapes. Her son, Richard L. George, is a Senior dental student.

This painting, shown at right, of the first Indiana State Capitol at Corydon was recently presented to the Indiana Student Union Board by the artist, Mrs. Ruth C. George, on behalf of Xi Psi Phi Dental Fraternity. Shown (left to right) are: Dr. Larry Davis, Past President of the Student Union Board; Dr. James Durward, Past President of Xi Psi Phi Dental Fraternity; Mr. Richard C. George; Mrs. George; and Dr. Walter Dean, Past Supreme President, Xi Psi Phi Fraternity and President, Indiana Xi Psi Alumni Association.



This plaque and the painting are on display in the main Lounge of the Student Union Building of the Medical Center Campus.



Alumni Association News

Thomas M. Boyd, President

Indiana University Dental Alumni attendance and participation is always great at the Chicago Mid-Winter Meeting, and this year was no exception. Judging from the size of the daily crowds of ol' grads and friends in our hospitality room at the Conrad Hilton, the hospitable facilities provided were a roaring success. In fact, there were times when the crowd overflowed into the room across the hall!

The annual luncheon in the Crystal Ball Room at the Blackstone was equally successful. Bill Orwig, I.U.'s vigorous athletic director, was our speaker and he filled in the color and details of the Indiana sports picture. And, as you know, I.U.'s most recent accomplishment is that of Doc Councilman's great swimming team that capped the NCAA crown!

In the faculty congratulations department, we want to recognize Dr. Ralph W. Phillips who served as this year's president of the International Association of Dental Research at their recent meeting in San Francisco.

At this same I.A.D.R. Meeting Dr. Joseph C. Muhler and Professor Marjorie Swartz were presented research awards for unusual competence in their respective fields.

Mr. Claude Rich, I.U.'s amiable alumni director, accomplished an "alumni first" last year at the Annual Fall Dental Conference in Bloomington (at least, to the best of your president's knowledge!). Claude inducted the entire '68 senior class into the I.U. Alumni Association 'as duly qualified members with all the privileges



President Stahr presents sculpture to Dean Hine as a gift from the Alumni Association.

appertaining thereto, etc., subject to scholastic mortality, etc'.

I am most certain that a move like that one 20 years ago would have really bolstered the morale of yours truly and his classmates of '48, especially nine months prior to graduation and board exams!

Plans are stirring for a bigger and better Fall Conference next September in Bloomington. Mark your calendar now for the week-end of September 19, 20 and 21 which includes the I.U.-Baylor football game and many extra events of interest.

Also, let's not forget our annual sub-

scriptions to the Special Projects Fund for the dental school this year! These funds provide scholarships and special equipment which add the refinements that keep our school and faculty in the top-ranking position it enjoys today! Enrichment programs do not fall within the general framework of the annual budget.

We have strong alumni support and let us keep it on that level. We wouldn't want it any other way!

Our alumni-sponsored Continued Education Program has been very successful this year, if participation is any barometer.

See you next fall in Bloomington!



Board of Directors meet during Fall Conference.



This bust of Dean Hine has been placed in the Library of the Dental School.



Dean Hine and Dr. Muhler congratulate Mrs. Harvey who was named Honorary Member of the Association and Dr. T. E. Lilly who was the Alumnus of the year.



Dr. McDonald, Bill Orwig, Director of Athletics, and Dr. Boyd at the luncheon during the Chicago Midwinter meeting.

Dental Hygiene

A. Rebekah Fisk, Director

Class of 1952

It was a pleasant surprise to receive a long distance phone call from Mary Louise Dreher one morning. The Dreher's are now living at 1200 East Third Street, Merrill, Wisconsin and Mary Lou was getting ready to take the Wisconsin State Board. Charlotte (Havens) Verbarg has been back in practice since last summer. Gloria (Horn) Huxoll is working very hard in the Dental Hygiene School in Fort Wayne. We now have a television course between the two schools, so we can see each other on the "tube" once a week. Mrs. Totten saw Pauline Revers at the Chicago meeting. Pauline said she would see us in May. Jane Johnson sent pictures of her children with her Christmas card. They are growing up as all children do.

Class of 1953

We were very sorry to hear that Elizabeth (Gilchrist) Keck's brother was killed in an automobile accident last fall. Christmas greetings but no news were received from Juanita Huitema and Marilou (Shideler) Halle.

Class of 1954

Geraldine Bailey and family moved to 513 Wyngate Road, Lutherville-Timonium, Maryland in June. Until her husband's promotion and transfer they had thought of themselves as "native" Texans. They are all happy in the new home and were charmed by the beauty of fall colors and later the rolling country covered with snow.

Marlene (Bleeke) Christmas is busy practicing part time and chauffeuring her daughters to all their activities.

Joan Kline joined the Dental Hygiene staff in July and is finding out what it is like on the other side of the coin.

Patty Boone sent Christmas greetings with a note that she is proud that one of her patients is now attending dental hygiene school at the University of Georgia Medical School.

Carol Rosebrock and family will be moving to Lafayette in June where her husband will be attending Purdue. Barbara Herrold and family have moved to LaPorte.

Class of 1955

Doris Klitzke and family are now living at 1935 Sunnyside, Waukesha, Wisconsin—a five bedroom bi-level which they built and are now busy decorating. Their children share their parents' interest in water sports and skiing and are doing well in school. Doris is practicing part time.

Mary Ann (Penn) Rolando and family went to Expo 67. Brenda is in nursery school, the twins are in kindergarten and Marc is in the 5th grade. Mary Ann still is practicing part time. Carla Totten is Treasurer of the Indiana State Dental Hygienists' Association which now has 200 members.

Class of 1956

Christmas greetings from the Gibsons, Ed, Jinnie, Scott 12½ years old and Mel David 4½ years old and the Gene Fryars (Janice Clinton). We finally received news from Phyllis (Wolf) Rhodes. In order to be able to spend more time with her family she is now working part time. Her husband is interested in flying and Phyllis and Don take turns being co-pilot. Don is a Cub Scout with enough projects to keep everyone busy, is doing well in school, although his major interest is sports.

Class of 1957

The Hensleys' (Peg Fixel) sent greetings from the "five of us"—their children are Ricky 9, Robbie 1½ and Meg 3 months. Nancy Dudding is a sophomore dental student. The Patton's (Corine Nowinski) have moved to a new home at 1223 East Wayne, North, South Bend. Their number six child John Paul was born April 24th. Corine has three children at home and three in school. Carol (Stump) Knox and family are now living at 6914 Charleston Lane, North, Indianapolis. Carol is practicing part time. We receive news of Jeanne Ann (Wright) Collins from her brother, Jim, who is a senior dental student. The whole family is planning a trip to Europe this summer to attend Jim's marriage to one of our graduates who came from The Netherlands. Sylvia (Baldwin) Mills, Marilyn (Hall) Smith, Jackie (Muehlbauer) French, Belva (Whaley) Burch, are still practicing. Christmas greetings were received from The Remley's—Basil, Nancy, Kent, Reed, Anne and Mary; Mary Ann (Healy) Hogan with a note saying they are well and happy, also Jan (Miller) Compton—all is well with the Comptons.

Class of 1958

In November we received news that this class might get together to celebrate their ten year reunion. We sincerely hope that enough of you are interested in a reunion and that it will be Indianapolis so that we can see you again.

Looking through a Dental Survey magazine last year, I came across a picture of Janice (Baird) Bargemeyer. The picture was included in an article describing the new office building of Dr. H. A. Raykouski and another dentist. Janice is the dental hygienist for both dentists. Since Missoula is surrounded by mountains, with many cattle ranches in all directions, Dr. Raykouski chose a western ranch motif for his reception room. A log

entrance way similar to those found in many ranches, provides a divider to separate the children from the adult area. In the alcove there are two real western saddles mounted on log saw horses, two rustic benches and a children's book shelf. The article is an interesting account of an unique arrangement which allows independent practice of two dentists sharing same facilities and personnel. The Hales (Donna Doss) are still in China but expect to come home this summer. They have had many interesting experiences in China including a trip to Hong Kong. Donna sent us a tube of Chinese type fluoridated toothpaste which we contributed to the Preventive Dentistry Department.

The address for Linda (Lobdell) Coleman is U.S. Navy Dental Clinic, Navy 626, Box 171, F.P.O., San Francisco c/o Lt. Robert Coleman. We wonder where they are really stationed. Judith Becker is now Sister Mary Paul in the Order of St. Benedict and is teaching in California. Ann (Buche) Spedding enjoys living in Kentucky. Ann is now licensed to practice there. After a few months vacation Pat (Nienaber) Obergfell is practicing again.

On January 22nd, the Plantz Team (Betty Hoehn) acquired a new member—Tommy. Now the count is three boys and one girl. They are living in their new home at 1104 "F" Street, LaPorte. Christmas greetings were received from Martha (Coplen) Crawford and Carol (Guthrie) Fitch but no news. Judith (Haag) Carichoff and Betty Plantz are working on their class reunion.

Class of 1959

We were very pleased to receive a letter from Carol Gutwein who is working with the New Tribes Mission in the Eastern Highlands of New Guinea. Most of her time has been spent in language work. Eventually she hopes to do a Bible translation. Carol says that except for the rain the living conditions are ideal. They have quantities of fresh vegetables from native

gardens all year round; other supplies come from the European settlement of Goroka which is about 35 miles from the Mission. If she wants to go to Goroka she must walk to the Mission Station and then take a jeep. To get to the villages she visits she must climb some pretty steep mountains but she thinks that the exercise is good for her. Occasionally she does some "prophies" for other missionaries. The natives go to Goroka for dental care which is provided free by the government. Carol would like to hear from her classmates. Her address is New Tribes Mission, Goroka P.D., Territory of New Guinea.

Myrtle (Starr) Austin and family are now living at 32 Cedar Lane, Scotia, New York. Her daughter, Theresa Lynn arrived safe and sound and with red hair in September. Sondra (Cleeter) Rose and family are now living at 642 East North Street, Kendallville. Lynn (Wilson) Hamrick is now living at R.R. #2, Box 144-B, Camby, Indiana. She is practicing part time in Franklin. The Meyers (Kay Camp) and Cynthia Kay are now living at 6102 Mission Road, Shawnee Mission, Kansas. Kay's husband is in charge of the Handiwork Department for Hallmark Cards. When you see a card with a button, a bow or a pop-out on a spring, one of his artists is responsible. Christmas greetings but no news were received from Edna (Railey) Hensey.

Class of 1960

On April 8, 1967, Judith Arnott was married to Robert W. Stusrud and is living at 2063 Suffolk Lane, Indianapolis. She is still practicing. Nancy (Patterson) Cornett is now living in a new home which they built at 355 Henley Road So., Richmond. We haven't seen Nancy for a long time but she promises to attend the May meeting. She has two children, Christopher four and Timothy two years old and is practicing part time.

Greetings from The Blues—Max, Jane (Hazeldine), Neal and John. A picture

of their beautiful new white, colonial home, Blue Brook Farm, R.R. #2, Xenia, Ohio.

Sally (Alcock) Pfafflin has been working part time but has had surgery on her wrist again and since it is about worn out she is retiring.

Class of 1961

Carol (Mager) Hurst has retired again as she has her hands full with Stephanie 3½, Charles 2 and Jodelle six weeks old.

Charlotte (Levan) Gross says her New York license has joined her Indiana license in a drawer because Stephanie and Jessica keep her busy.

Alice (Schmitt) Houft has three children, Kathleen, David and Joan Louise. Christmas greetings from the Freemans—Bob, Phyllis (Ordway), Keith and Paige. Donna (Ross) Abrams has three children—Katherine 2½, Mike 1½ and Dan 4 months old. The Abrams live at 5727 N. Ewing Street, Indianapolis. Linda (Munyon) Galloway has two daughters, Amy 2 and Jill 1 year old. The Galloways live at 1011 Columbia Avenue, Fort Wayne.

Class of 1962

The Walkers, Jon and Hila (Draper) are now stationed in San Francisco. They live at 2235 Lincoln Avenue #311, Alameda, California. Hila is the only dental hygienist practicing in Alameda and is very enthusiastic about her work and the opportunities in the area for skiing. Karen (McCoskey) Beard and her husband have just returned to Indianapolis and are glad to be back home.

Audrey Gotch is now living at 203 Dana Street #4, Princeton Windsor Apts., Princeton, New Jersey. Her husband is attending graduate school at Princeton University. A new address for Judith (Spivey) Kight is 5029 Tierra Del Ord, Carlsbad, Calif. Wanda (Stevens) Lew has been practicing part time but thinks she will retire for awhile in order to spend more time with her family.

Carol (West) Swinton is now living at 1501 S.E. 15th Street, Ft. Lauderdale, Vice President of the Indiana State Dental Hygienists' Association and busy planning the program for the May meeting.

Sandra Taylor made the paper last summer when she was hostess and cook for a dinner group of 70 of Dr. Taylor's associates. The piece de resistance was a 175 pound dressed pig which was barbecued on a spit in their back yard. We suggested that they do it again for her dental hygiene associates.

Class of 1963

Diane Baker returned to school in September and will receive her Bachelor of Science degree in June.

The Boren's, Nancy and Butch have been in Hawaii since last August and are really enjoying their year there. Dr. Boren is on the staff of the Strong Memorial Clinic. Kay Conaway has been working full time this year for the State Board of Health. She is very busy planning the Montgomery County and the Wabash County programs for the second year dental hygiene students in the School of Dentistry and at Fort Wayne. In her spare time she is planning her wedding. Pat Mylinski is now Mrs. Durkin. Connie Hamilton is more than busy this year with all her duties incident to being president of the Indiana State Dental Hygienists' Association. As secretary of the Association, Carmine McDonald has been working diligently on the address list. Ellen Morrel and daughter Cheryl joined Lt. Morrel in Okinawa in August. Their address is U.S.A. STRAT COM - OPNSBN (Post) Okinawa, A.P.O. San Francisco, c/o Lt. W. R. Morrell, Jr. 05-531-263. The Osborn's, John, Karen, Jennifer and David are now living at 280 Mill Road, East Aurora, N.Y.—a small, friendly community south of Buffalo. Thru the Newcomers Club they have joined a bowling league, bridge and ski clubs. They are also busy refinishing furniture. Jennifer 5 and David

3 years old attend nursery school two days a week. Shermie Shafer went to Germany last summer to visit her brother, Carol Heinie also spent her vacation in Europe. The Raag's added Thomas Jr. to their family in December. The Moriconi's (Marty Bradley) also have a son.

Class of 1964

The Bryn's (Kathy Heath) and daughter Heather are now living at 315 So. Elm Street, Hagerstown, Indiana. In December Ann (Cooper) Fox wrote for a list of addresses for this class. We are hoping that she would send us a copy of the newsletter she and Carolyn (Humphrey) Lucas were getting together. Carolyn is now living at 5018 Cunningham Drive, Evansville. The Landrums, Jeff, Dina (Eckelbarger), Todd and Mathew are living at 3141 Forty-fourth Street, Highland. Dr. Landrum is associated in practice with several oral surgeons. The Winslows (Gay Gossard) are living at 4620 Georgetown Ct. #8, Indianapolis. Gay is practicing full time. Sally (Howard) Stein is now living at 2303 Chalet Gardens Road #212, Madison, Wisconsin. Virginia Cox has a daughter Valerie Katherine born October 8th, 1967. Madolyn (Myers) Puntillo now has a son and a daughter. Mary Elizabeth was born June 22, 1967. Bonnie Lou Moore is now Mrs. Zarse. While her husband is in Viet Nam, Suzanne (Ireland) Miller is devoting her spare time to some courses she is taking at Extension. Capt. and Mrs. James T. Dills (Vivian Walton) have been transferred to Ramstein, Germany. Det 5 APRE, CMR Box 4548, APO, New York 09012. Sandra Stamper is now living at R.R. #2, West Lafayette, Indiana.

Class of 1965

Judy Dolton is living at 120 Kingston Place, Apt. #62, Bloomington. She is practicing and taking some courses on campus. Rosemary Edge and Leni Zucker

have made application for positions in Switzerland. Leni will complete degree requirements at Ohio State in June. Also, Marcia Keith returned to School in September and will complete degree requirements in June. Sara Wilson was married to Mr. Ed. S. Wilbourn in September and is living in California. Sandra (Swartz) Krebs is on the Dental Hygiene staff at Northwestern University. As Dr. Krebs has been accepted for the graduate program in Periodontics at the University of Louisville they will be moving again. Nancy McGaughey will be married to Larry R. Lievsay on May 11th. Mr. Lievsay is from Boise, Idaho. Carolyn (Brown) Robbins was home for a few weeks in January. The Robbins are taking advantage of every opportunity to travel in Europe and are enjoying their tour of duty. The Browns (Betty Bush) including Jennifer Lynn who was born in December are living at 6059 Hillside Avenue. As Peggy (Mallory) Engber requested a transcript for the Tennessee Board, we assume they are moving. We have new addresses but no news for the following: Marilyn Williams, 3522 Fairington, Bloomington; Marilyn (Brown) Noble, 720 Scott Street, Connersville; Carol (Cudek) Pieters, 3611-167th Street, Apt. 2-C, Hammond; Gail (Gordon) Gierke, 1606 A Street, LaPorte; Richetta (Holland) Willis, 531 Perry Street, South Bend; Sharla (Klahr) Hickman, 7901 Rea Road, Indianapolis; Sue (Pfeifer) Pierce, 605 Packard Avenue, Fort Wayne; Peggy (Smith) Cunningham, 2520 Pleasonton, Boise, Idaho; Vicky (Walker) French, 632 A, So. Harlan, Evansville; Karen (Wariner) Cobb, R.R. #1, Salem; Sandra (Norquest) McWilliams, Box 411, Clermont.

Class of 1966

Susan Brown was married to A. Thomas Mervar in September. Mr. Mervar is on duty at Fort Bragg, N.C., and Susan is working in the Oral Hygiene Section of

one of the six dental clinics on the base. She says this is a different but worthwhile experience. Her address is 212 Brainard St., Apt. #1, Fayetteville, N.C. Joyce Hudson was married to Harry E. Willis in October. Her address is R.R. #1, Zionsville; she is working in Frankfort. Gloria Hurwitz returned to school in September to complete degree requirements. Her engagement to Terry Gernstein was announced recently. Donna Zimmerman was married to Dr. William Robertson in St. Matthew's Church, Darley Abbey, Derby, England. The church was built in 1700. Dr. Robertson is serving an internship in Chicago and Donna is working at the Loyola University Dental School which does not have a dental hygiene program. She spends most of her time in the dental clinic of the school. Her address is 510 North Sheridan, 205N, Chicago, Illinois.

New addresses for this class are: Jean Brumbach, 2601 Lindsey Ave., C-4, Louisville, Kentucky; Kathy (Burks) Roll, 7722 Hackberry Court, Indianapolis; Barbara (Butz) Kemmer, 101 Sheets Street, Oxford, Indiana; Pamara (Dal Sasso) Michaels, 2122 N. Lynhurst Drive-C, Indianapolis; Lillian Koleszar, 2421 Marlene Avenue, Bloomington; Connie Nicholson, 925 Ridgewood Dr., Ft. Wayne; Janey (Ligon) Poland, 2050 Fishers Avenue, Speedway; Kathryn (Sutherland) Hook, 408 W. Bowne, Clarksville; Faye (Wolf) Plascak, 63 C Port Robert Dr., Indianapolis.

Class of 1967

Barbara Atkinson was married to John E. Ockomon in September and is living at 6111 Laurel Hall Drive #3, Indianapolis. Els Apon and Ida Hordijk returned to The Netherlands in August. Els is working in a school dental health program and Ida at an Army dental center. One of the first things they did when they arrived home was to start an organization. Els is president and Ida is secretary of the group of twelve dental hygienists. Since

each is employed in a different type of situation they enjoy getting together for an exchange of ideas and experiences. They have found that there are problems incident to pioneering a new profession. Ida was married to Jim Wright on June 29th. Els sent a copy of a Dutch poster which is a picture of a little girl washing her hands, and a boy brushing his teeth. The caption, translated—We wash our hands, our nose, our mouth and we brush our teeth, that is why we are so healthy. Els will be married to Dr. John Pell in July if he gets out of the service.

Joyce (Worman) Hubbard and Cheryl (Kallenbach) Clark presented some educational material on local television during Children's Dental Health Week and thought it was a very rewarding experience. Joyce is very busy working four days a week, keeping house and going to school working on her degree. Her new address is 1133-B Lincoln Avenue, Evansville. At a recent meeting of the Central Indiana Dental Hygienists' Association, Sandra (Jeffries) Zody explained the

dental health program in the Muncie schools. She illustrated her talk with some slides she had taken of the old and new clinic and others of patients which had been taken before and after dental treatment. She is very enthusiastic about the program which she has found to be challenging and interesting.

Karen Faust, Mary Fifer, Maria Karlakis, Karon Larson and Carol Smallwood are in the midst of their field work at the State Board of Health. Dr. and Mrs. Steel (Anita McCrackin) will be moving to Philadelphia where Dr. Steel will be a resident in Oral Surgery at the Episcopal Hospital starting July 1st. Anita writes that the New England area has much to offer the cultural and social enthusiast and they have enjoyed being there. Sheryl St. John and Sheryl Thompson have moved to 1033-C Park Forest Drive, Marion. Rebecca (Spille) Jones is working for two dentists and lives at 5646 Falls Clayton Road, Covington, Ohio. Christine (Steichen) Flannigan is living at 115 Betsy, N. Apt. #116, Indianapolis.

Fort Wayne Regional Campus News

Ralph Schimmele, Director of the Dental Auxiliary Programs on the Regional Campuses

Dental Auxiliary Programs

Academic years seem to come and go much too quickly. The 1967-68 academic year has been no exception to this. It is always interesting to look back one year and see what did happen, what should have happened, and then project your thinking into the new year in terms of what will happen.

A few progressive steps have been taken during the past year, which we believe to be somewhat interesting. Perhaps the most noteworthy of these is the establishment of a baccalaureate program for the dental hygiene student. Midway through

the year, the University, through its School of Dentistry, School of Education, and Division of Regional Campuses, announced a cooperative four-year dental hygiene program terminating with a Bachelor of Science Degree with a major in dental hygiene, which is applicable to dental hygiene programs at regional campus locations. Fort Wayne is proud to pioneer this effort.

With the beginning of the second semester, the Fort Wayne programs and the School of Dentistry strengthened their tie with the first television course being

presented "live" from the Medical Center Campus to the Fort Wayne Campus. Dr. Paul Starkey, Chairman of the Division of Clinical Pedodontics, graciously accepted the challenge of this new endeavor and has done his usual excellent job. Hopefully, in the not too distant future, the Fort Wayne Campus will be equipped to originate programs, and with such an arrangement, the "tie" would seem to be complete. The present system allows for instant "talk-back" which permits the student in Fort Wayne to ask questions as if she were seated in Dr. Starkey's classroom.

Another innovation that is not unique to just the Fort Wayne Campus, but one that involves all of the State Universities, is that of S.U.V.O.N which is the title that has been given to the State Universities Voice Network. This network ties together all campuses in a direct dialing telephone system that gives us in Fort Wayne the feeling that the Dental School is located "just around the corner." Wonderful is the only word to describe this network.

This past year also saw the addition of one full-time faculty member in the Dental Hygiene Program. Mrs. Marilyn Currie, a 1956 graduate of Marquette University, joined our faculty last September. Presently her duties have largely been confined to the Dental Hygiene Program, but her past experience in practice has been utilized in the Dental Assisting Program, also.

Research at the regional campus remains in its infancy. This campus now has a well-equipped animal shelter where much activity is occurring, but we are sorry to report nothing in the area of dental research. The Fort Wayne faculty remains very excited over the possibility of using the shelter.

Continuing Education programs are a highlight of professional post-graduate presentations at this campus. As usual, our attempt has been to schedule four such programs, three of which are one-day in

length and one program which meets one day each week for at least four weeks. One program was offered for dental auxiliaries this past year, and we hope to expand this presentation during the coming year.

Two new hospital affiliations were formed this year to help broaden the clinical exposure for both dental hygiene and dental assisting students.

Our programs continue to be aided and supported by local professional organizations. This past year we were extremely fortunate to have a total of \$600 in scholarships awarded to students. A \$100 scholarship was awarded to a dental assisting student by the Isaac Knapp Dental Assistants' Society, and the Isaac Knapp Dental Auxiliary (dental wives) awarded \$500 to three students—two in the hygiene program and one in the assisting program.

On June 6 the first commencement exercise was held at this campus. Presidents Stahr and Hovde attended, and of the eighteen disciplines offering baccalaureates at this campus, 250 graduates received their degrees.

History Repeats Itself

Dr. Julian Geller, who received a Master's Degree in Pedodontics last June from Indiana University School of Dentistry, was recently quite elated to learn that he had won the coveted Lord-Chaim Research Award from the New York Dental Society.

It's interesting to note that Dr. Grant Van Huysen received this same award in 1933, when he was a Rockefeller Research Fellow at the University of Rochester School of Medicine and Dentistry. His research was with dentin sclerosis using a photographic densitometric technique. When I talked with Van, he remembered the time well since it was the very day that prohibition was lifted that



Dr. Julian Geller

he read his paper. Funny that he should remember that!

Then in 1957, Dr. Arthur I. Klein, Assistant Professor of Pedodontics on our faculty, won the same award. His research was done in partial fulfillment of the requirement for a Master's Degree at IUSD. His work was also with dentin sclerosis, using a photographic densitometric technic. Dr. Klein directed Dr. Geller's research.

Times change and research methods are perfected. Dr. Geller's work was with . . . you guessed it, dentin sclerosis. However, he used a very sophisticated technic with a television densitometer. The objective of Dr. Geller's study was to evaluate the association between the depth of a carious lesion and the dentinal sclerosis produced beneath a calcium hydroxide methyl cellulose base material.

He concluded that calcium hydroxide methyl cellulose base material acts as a "trigger mechanism" in deep cavities for stimulating the deposition of sclerotic dentin.

Dr. Geller is now in the private practice of Pedodontics in Toronto, Ontario,

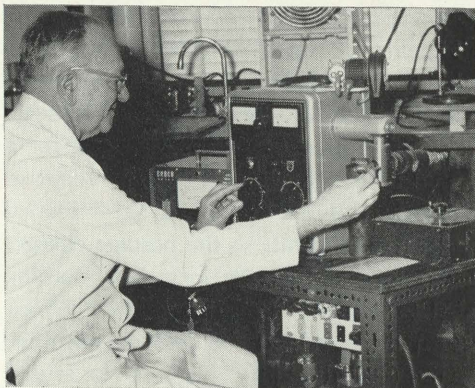
Canada. He was born in Toronto and educated there, receiving a D.D.S. from the University of Toronto in May, 1964. He was then an intern in the Hospital for Sick Children in Toronto 1964-65, after which he came to Indianapolis for his two years graduate training in pedodontics, obtaining his Master's Degree in 1967.

Dr. Geller and his lovely wife, Joanne, just recently became the proud parents of a baby daughter.

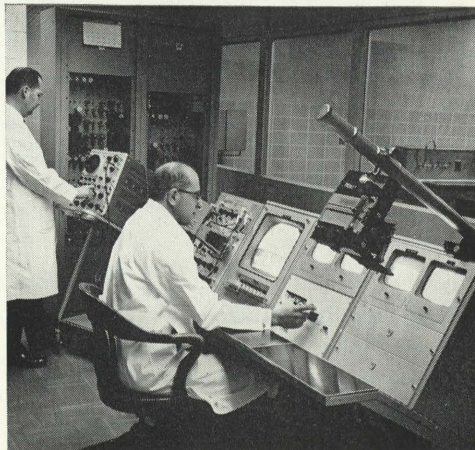
Congratulations, Jules, on the award from the New York Dental Society and also the one from your wife.

We appreciate very much the donation which Dr. Geller has made for the purchase of a library chair to be placed in the Special Units Laboratory in memory of his father.

R.W.P.



Dr. Grant Van Huysen, 1933 Lord-Chaim Award winner.



Dr. Arthur Klein, 1957 Lord-Chaim Award winner. Electronics technician Dwight McPherson is at left.

The Bookshelf

Mrs. Helen Campbell, Librarian

To the IUSD Alumni—

The phrase, "continuing education," appears frequently in the dental literature! What does it bring to your mind? A workshop? A symposium? One day's attendance or two years of study in a specialty field? A review of proven methods or a briefing on new developments? But have you considered "continuing education" as a private endeavor to be pursued in your own office or when relaxing in your den at home?

The following list of books is intended as a representative collection of titles in all fields of interest, which have been added to our shelves within the last twelve months. Any of them may be borrowed from this Library for your own use, for a period of two weeks, with the privilege of renewal. Library materials are mailed under a special rate so the postage charges are small. We always include a mailing label to which you need to add only your return address, and the padded envelope we use (called a "jiffy" bag) can be reused if the staples are removed carefully. It is a simple process to request that we lend you materials, and one which may open new areas for you.

Won't you look over the following list of books, scan the theses' abstracts and consider the use of the Indiana University School of Dentistry Library as your personal and immediate venture in "continuing education?"

Advances in oral biology. v. 2. New York, Academic Press, 1966.

Ahlgren, Johan: Mechanism of mastication. Malmo, 1966.

American Dental Association: A speaker's guide for dentists. Chicago, 1967.

Avnet, Helen Hershfield and Nikias, Mata Kouvari: Insured dental care. New

York, Group Health Dental Insurance, 1967.

Bosma, James F.: Symposium on oral sensation and perception, Springfield, Ill., Thomas, 1967.

Burgen, A.S.V. and Emmelin, N.G.: Physiology of the salivary glands. Baltimore, Williams & Wilkins, 1961.

Carlsson, Gunnar E.: Changes in the jaws and facial profile after extractions and prosthetic treatment. Umea, 1967.

Clinical pedodontics. 3d ed. Philadelphia, Saunders, 1967.

Dempster, Wilfrid T.: Selected dissections of the facial regions for advanced dental students. 5th ed. Ann Arbor, Michigan, Overbeck Co., 1966.

Ennis, John: The story of the Federation Dentaire Internationale, 1900-1962. London, Federation Dentaire Internationale, 1967.

Gilmore, H. W.: Textbook of operative dentistry. St. Louis, Mosby, 1967.

Hartland, John: Medical and dental hypnosis. Baltimore, Williams and Wilkins, 1966.

Hine, Maynard Kiplinger: Review of dentistry; questions and answers. 4th ed. St. Louis, Mosby, 1966.

Hirschfeld, Leonard and Geiger, Arnold: Minor tooth movement in general practice. 2d ed. St. Louis, Mosby, 1966.

Hollander, Lloyd N.: Modern dental practice; concepts and procedures. Philadelphia, Saunders, 1967.

Inglemark, Bo Eric, Moller-Christensen, Vilh., and Brinch, Ove: Spinal joint changes and dental infections. New York, S. Karger, 1959.

Jay, Philip: Dietary program for the control of dental caries. Ann Arbor, Michigan, Overbeck Company, 1965.

- Johnston, John F. et al: Modern practice in dental ceramics. Philadelphia, W. B. Saunders, 1967.
- Jorgensen, Niels Bjorn and Hayden, Jess: Premedication, local and general anesthesia in dentistry. Philadelphia, Lea & Febiger, 1967.
- Killey, H. C. and Kay, L. W.: Benign cystic lesions of the jaws, their diagnosis and treatment. Edinburgh, Livingstone, 1966.
- Killey, H. C.: Fractures of the mandible. Bristol, John Wright & sons, 1967.
- Kornfeld, Max: Mouth rehabilitation. 2 vols. St. Louis, Mosby, 1967.
- Langeland, Kaare: Tissue changes in the dental pulp. Oslo, University Press, 1957.
- Levoy, Robert P., The \$100,000 practice and how to build it, Englewood Cliffs, N.J., Prentice-Hall, 1966.
- The mechanisms of tooth support, a symposium. Bristol, John Wright & Sons, 1967.
- Miles, Albert Edward William, ed.: Structural and chemical organization of teeth. 2 vols. New York, Academic Press, 1967.
- Moller, Eigild: The chewing apparatus. Copenhagen, 1966.
- Permar, Dorothy: Oral embryology and microscopic anatomy. 4th ed. Philadelphia, Lea & Febiger, 1967.
- Rantanen, Aimo V.: The age of eruption of the third molar teeth. Helsinki, 1967.
- Rush, Benjamin F.: Combined procedures in the treatment of oral carcinoma. Chicago, Year Book Medical Publishers, 1966.
- Schultz, Louis C.: Operative dentistry. Department of Operative Dentistry, University of Michigan School of Dentistry. Philadelphia, Lea & Febiger, 1966.
- Scott, James Henderson: Dento-facial development and growth. Oxford, New York, Pergamon Press, 1967.
- Shore, Nathan Allen and Shore, Miriam Felder: How to test and hire for the professional office. Philadelphia, Lippincott, 1967.
- Skinner, Eugene William and Phillips, Ralph W.: The science of dental materials. 6th ed. Philadelphia, Saunders, 1967.
- Thurow, Raymond C.: Edgewise orthodontics. 2d ed. St. Louis, C. V. Mosby Co., 1966.
- Tocchini, John J., ed.: Restorative dentistry. New York, Blakiston Division, McGraw-Hill, 1967.
- Treweeke, Michael B.: A guide to dental practice. New York, Pergamon Press, 1966.
- Tweed, Charles H.: Clinical orthodontics. 2 vols. St. Louis, C. V. Mosby, 1966.
- Weidmann, S. M.: Dental enamel: rock or tissue? Leeds University Press, 1967.
- Werner, Hakan: Measuring of lip pressure. Stockholm, 1964.
- Wilhelmy, Glenn E., comp. Manual for hospital dental procedures. Tucson, Arizona, 1965.
- Wood, L. Brent: A handbook of dental malpractice. Springfield, Ill., Thomas, 1967.

The following theses abstracts are listed for your information and interest.

A LABORATORY INVESTIGATION INTO SOME PHYSICAL PROPERTIES OF PERIODONTAL DRESSINGS

William Craig Amos, 1967

Very little is known about the physical properties of conventional periodontal dressings. The purposes of this study were to develop techniques for determining the physical properties of periodontal dressings, to actually determine the physical properties of a group of commonly used periodontal dressings and to relate these properties to their clinical application.

The properties of consistency, setting time, flow, ultimate tensile strength, dimensional change and the pressure exerted on the healing tissues by the expansion of the dressing were determined for seven commercially available periodontal dressings and one dressing compounded and used at the Indiana University School of Dentistry. The tests used were either modifications of standard methods of deter-

mining the physical properties of dental materials or were new tests designed specifically for periodontal dressings. It was found that the physical properties varied greatly among the materials investigated, and it was felt that a knowledge of these properties would be of considerable value to the clinician.

IN VITRO AND IN VIVO STUDIES CONCERNING CALCULUS INHIBITION

George Parker Barnes, 1967

The purpose of these studies was to evaluate: (1) the relative efficiency of two techniques of producing calculus *in vitro*; (2) the effects of four tooth surface polishing agents on calculus deposition *in vitro*; (3) the effects of two chelating agents on *in vitro* calculus formation; and, (4) the clinical calculus inhibitory effects of four dentifrices containing varied combinations of chelating and surface polishing agents.

In one *in vitro* test, human saliva used alone was found to be more effective in producing calculus than a combination of human saliva and a calcifying solution.

Data obtained in seven *in vitro* tests provided information that while flour of pumice did not affect calculus formation, use of the surface polishing agents, *Zircate* and magnesium silicate-zirconium silicate B, both resulted in significant calculus reductions. Calculus reductions resulting from the use of magnesium silicate-zirconium silicate B were consistently greater than those resulting from the use of *Zircate*.

While the chelating agent, monoethanolamine diglycolate, did not significantly reduce calculus formation *in vitro*, Victamide rinses did result in significant reductions in this entity.

In a clinical pilot study use of two dentifrices containing Victamide resulted in significant reductions in the severity of calculus. Two monoethanolamine diglycolate containing dentifrices did not significantly inhibit calculus.

These studies suggest that a partial solution to the problem of dental calculus may eventually be found through the use of surface polishing agents and/or chelating agents.

AN EVALUATION OF THE COMPARATIVE STRENGTHS OF SOME HIGH FUSING SOLDERS USED FOR GOLD-PORCELAIN RESTORATIONS*

Robert Lee Bogan, 1967

This investigation was conducted to ascertain the comparative resistance to fracture by four of the commercially available high fus-

ing precious metal solders when they were subjected to the application of a load. The yield points were tabulated.

Cylindrical samples of cast metal alloys were prepared, aligned and invested in previously fabricated soldering blocks.

Plastic shims were interposed between some of the samples to provide one-third of the series to be aligned in-contact, one-third with a 0.13 millimeter gap distance, and the final one-third with a separation of 0.52 millimeters.

The solders tested were Jelenko's Ceramco, Ney's Quick-flow, Ney's Buildup, and Austenal's Microbond. At the three separations, Ceramco ranged from loads of 195 pounds, to 172 pounds, to 172 pounds at yield point. Quick-flow increased from 104 pounds, to 125 pounds to 144 pounds as the gap increased. Build-up, at the two narrower separations supported 190 pounds, but at 0.52 mm. it dropped to 144 pounds. Microbond varied from 123 pounds to 120 pounds to 196 pounds as the separation was increased.

A double classification analysis of variance was applied to the data, and there is a highly significant difference between the various solders, and this difference is dependent upon, and influenced by, the separations which were introduced.

*This research was supported in part by Public Health Research Grant FR 00162-02.

EFFECT OF DENTAL HEALTH EDUCATION ON ORAL DISEASES

Peter Dale Christman, 1967

It has been stated that the only effective way to control caries and periodontal disease is through a comprehensive program of prevention and that to be successful such a program must begin with the children.

This study was designed to evaluate an oral health education program in the elementary grades. Two series of lectures were given by a dentist at six-month intervals and a self-phophylaxis paste containing anticariogenic agents was applied by the students to their own teeth at this same interval.

The results suggest that the students were motivated to improve their oral hygiene and to visit the dentist more frequently. The dental I.Q. of the educated students was higher than that of the other groups. Thus, the educated students had a better understanding of the causes, prevention, and treatment of dental diseases.

The oral hygiene of the educated group improved 24.4%, while the group receiving self-phophylaxis treatments only improved 15%. The control deteriorated by 6.4%.

Periodontal improvements were not significant, although when comparing the different groups, the control was 34.7% worse than the educated group and 85.6% worse than the group receiving self-prophylaxis treatments.

Over 40% of the treated groups received new restorations during the course of this study while only 15% of the control did.

Caries reductions in the treated groups averaged between 30-40%.

STUDIES OF TERTIARY DENTIN FORMATION IN MONKEY TEETH UTILIZING VITAL DYES

Francis M. Fischer, 1967

The purpose of this investigation was to study various factors and conditions influencing the rate and the amount of tertiary dentin formation by the use of vital dyes. Attempting to establish minimal floor thickness, Class V cavity preparations were made in 70 monkey teeth (3 animals). Three materials possessing different irrational properties were sealed in the preparations, croton oil, Dycal and zinc oxide-eugenol. Procion red (H8BS) and Achromycin (a tetracycline antibiotic) were the marking agents. The dye was administered intraperitoneally, on day one, after fifteen, thirty and sixty days. After ninety days the teeth were removed. The specimens were prepared for histologic observations, either as decalcified sections or ground sections. Measurements of the thickness of remaining dentin and the tertiary dentin formation were made with an ocular micrometer. Observations were made on the rate of tertiary dentin formation with a fluorescent microscope. The different irrational materials were associated with approximately the same amount of tertiary dentin. Tertiary dentin was minimal from day one to the fifteenth day. Maximum formation occurred from the fifteenth to the sixtieth day. It tended to decrease after 60 days. The procion dyes have the distinct advantage of remaining in decalcified tissue and being apparent under the incandescent light and fluorescent microscope. This is not true of other vital dyes.

A TELEVISION RADIOGRAPHIC EVALUATION OF THE ASSOCIATION BETWEEN DENTIN SCLEROSIS AND PULPAL FLOOR WIDTH

Julian Sheldon Geller, 1967

The purpose of this investigation was to evaluate the association between the depth of a carious lesion and the sclerotic dentin de-

posited beneath a calcium hydroxide methyl cellulose base material. The sample chosen consisted of teeth with deep caries and possible pulp exposure, as evidenced by a critical radiographic examination. Clinical procedures consisted of a preoperative serial radiograph, followed by complete caries removal. A barium sulphate radiopaque solution was then applied to the base of the preparation, followed by a second serial radiography. The barium sulphate was removed and a calcium hydroxide methyl cellulose base was applied and the tooth restored with a silver amalgam alloy. Subsequently one, three, six, and nine-month serial radiographs were taken postoperatively. Calcification change of sclerotic dentin overlying the pulp was measured in relation to pulpal floor width by the television instrumentation.

The conclusions of this study are as follows:

1. A calcium hydroxide methyl cellulose base material acts as a "trigger mechanism," in deep cavities, stimulating the deposition of sclerotic dentin.
2. The thinner the initial pre-restored pulpal floor, the more rapid and dramatic is the post-operative pulpal floor increase in width, which is apparently a protective pulpal response.
3. During the periods of time when a significant increase in pulpal floor width was noted, the percentage change in calcification of this area decreased. Conversely, when little pulpal floor width increase occurred, the percent change in calcification of this area decreased. Conversely, when little pulpal floor width increase occurred, the percent change in calcification increased.

EFFECTS OF FLUORIDE ON HYDROCORTISONE-INDUCED OSTEOPOROSIS

James R. Hudson, 1967

Numerous studies have indicated that hydrocortisone can produce osteoporosis in humans and experimental animals, and that fluoride when administered in the appropriate dosages is related to the calcium retention and an improved histologic picture in experimental animals receiving corticosteroids. This study was designated to investigate the effects of fluorides upon hydrocortisone-induced osteoporosis. The study was divided into three series: (1) to determine the dosage level of hydrocortisone needed to induce osteoporosis; (2) to observe the effects of previous fluoride exposure upon hydrocortisone-induced osteoporosis; and (3) to observe the effects of simultaneous administra-

tion of fluoride in the long bones and supporting alveolar structures of rats treated with hydrocortisone. The results indicate that previous exposure to fluoride in excess of 75 ppm., and that the simultaneous administration of fluoride in excess of 50 ppm., has an effect on hydrocortisone-induced osteoporosis. Improved histologic changes were evident. The bone did not appear as sclerotic; the epiphyseal plate was better oriented; and the margins of the septa exhibited less staining. An increase in calcium uptake by the various bones and carcasses of the hydrocortisone-treated animals was observed when they had been treated with supplemental fluoride.

A STUDY OF THE FACTORS EFFECTING DISCONTINUITIES AT THE PORCELAIN METAL INTERFACE OF PORCELAIN FUSED TO METAL RESTORATIONS

Ronald H. Jarvis, 1967

In this investigation 150 specimens were made using three different porcelain-metal combinations. The combinations used were Jelenko Ceramco #1 alloy with Ceramco porcelain, Ney-Oro P-16 alloy with Thermalite porcelain and Micro-Bond platinum series alloy with Micro-Bond porcelain. All porcelain in the study was vacuum fired.

Three specimens were used for each variable investigated. The variables which were of primary interest were those of time, temperature and atmosphere of degassing. Of secondary interest were surface coatings used to prevent bubbles and the surface texture of the underlying metal structure.

It was accidentally discovered that the metal surfaces which were finished with carborundum discs formed blisters when degassed. When degassed in vacuum the blisters were more numerous and larger than when degassed in air.

It was found that with all three combinations degassing is necessary. In general, with increase in time and temperature of degassing fewer bubbles were seen at the interface of the metal-porcelain. The smooth disc gave the best result as far as discontinuities were concerned.

AN IMPROVED PROPHYLACTIC PASTE FOR THE PARTIAL CONTROL OF HUMAN CARIES

Gordon Edward Kelley, 1967

Several dental abrasive systems consisting of zirconium silicate, lava pumice, flour of pumice,

fine pumice, and silex were evaluated for their compatibility with stannous ($\text{Sn}[\text{II}]$) and fluoride ions provided by stannous fluoride, and fluoride ions provided by sodium fluoride. Zirconium silicate was the most compatible of all the abrasives tested by laboratory compatibility and enamel solubility techniques.

In addition, various concentrations of stannous fluoride were evaluated with these abrasives and the combination of 18.0 percent stannous fluoride with zirconium silicate was the most effective prophylactic paste for the reduction of in vivo enamel solubility and dental caries in the rat.

A one-year clinical study using this prophylactic paste was conducted and significant reductions of 35 percent in DMF surfaces and 48 percent in interproximal surfaces was found after applications of this paste at the start of the study and after the 6-month examination. There was also an 82 percent reduction in DMF surfaces in teeth that were carious at the initial examination.

A HISTOPATHOLOGIC STUDY OF MONKEY AND DOG CONNECTIVE TISSUE RESPONSES TO IMPLANTED DENTAL MATERIALS

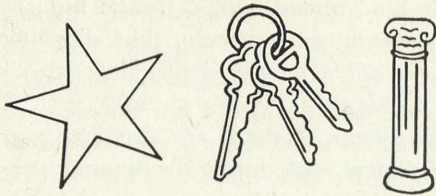
Gerald H. Prescott, 1967

An extensive review of the literature concerning dental implantation studies was done.

An investigation of the connective tissue responses of dogs and monkey to ten dental materials was conducted. Pellets of similar size of the test materials were surgically implanted into the dorsal subcutaneous connective tissue in dogs and monkeys. The materials studied included four restorative materials: silver amalgam, copper amalgam, a resin, and a silicate cement; three cementing materials: black copper cement, white copper cement, and zinc phosphate cement; two used in treating the dental pulp: calcium hydroxide and zinc oxide plus eugenol; and one temporary filling material: gutta percha. After test periods of four days, 15 days, and 30 days, the implants are exercised and histopathologic sections were prepared and studied.

Several findings in the study were paradoxical to findings in rat studies, particularly in regard to severity of the response of silver amalgam in dog and monkey tissue as compared to those responses found in rat connective tissue.

(Continued on page 64)



Paul Starkey

Last Summer while talking to one of my classmates, I was surprised to learn he was under the impression that the Summer months for the dental school faculty were very leisure ones . . . that there were no students around, and that the faculty had ample time to more or less rest and prepare for the next year's teaching program. Let me assure you, I hastened to inform him that this was not at all the case, that we are probably—if anything—busier than the traditional nine-month school year.

Because I thought you would be interested, I spoke to the Chairman of the clinical departments just to determine for sure what their summer activities consisted of last year.

Pedodontic Department

Let me tell you first about our Pedodontic Department's summer program. The senior students are committed to the pedodontic clinic for 30 half-days. Each summer now for several years, we have provided the students the opportunity to complete approximately 24 half-days of their senior obligation during the preceding summer. This is done on a voluntary basis, but each year we have had to limit the number of students, as more apply than we can accept. There are approximately seven students in each half-day during June and July and, last summer, 22 students were accepted into the program. The students appreciate the opportunity to complete much of their clinical obligations during the Summer and find it to be a delightful learning environment and free of pressures from didactic courses. One of the major advantages to this program to our department is the

fact that nearly one-fourth of the class completes its obligation to us and this, in turn, allows an improved faculty-to-student ratio during the academic year. It does, however, keep our staff very busy and unfortunately deprives us of unpressured time in which to prepare for the oncoming Fall Semester.

Crown and Bridge Department

Dr. Roland W. Dykema, Chairman of the Crown and Bridge and Partial Denture Department, told me that they have some 50 students working in their clinic daily . . . that the activities in the department are pretty much the same during the Summer as they are during the regular school year, with the exception that they have no undergraduate scheduled courses. Last Summer, the department also sponsored a continuing education course on dental occlusion, which lasted for four days.

Operative Department

Dr. H. William Gilmore, Chairman of the Operative Department, made the following comments when I quizzed him about their activities last Summer. The program in the Department of Operative Dentistry in the Summer is somewhat different and more active for the faculty than the regular semester schedule. Much of the time is spent preparing for the next school year, but the popularity of the summer clinic has continued to increase and places additional demands on our teachers. The overall work load for the summer schedule produces more demands on the full-time teachers, and the regular August closing is acutely needed to complete started projects, have the clinic cleaned,

and to inventory the supplies and equipment.

In the last three years, many students have elected to work on a regular schedule in the clinic. The teaching has been directed to developing the understanding for comprehensive dental care providing exacting restorative procedures and refining the abilities in diagnosis and treatment planning. Although the student number is less than the regular school year, the teaching responsibilities are increased because of the selected special cases and the tutorial methods of instruction that are utilized in this program. For each afternoon, 30 students are permitted to work with four instructors, with the group being divided into sections. The ratio, although it is far from ideal, permits improved student contact and instruction. The time gained by the students is used to free up the latter part of the senior year for which an Honors Program has been developed. This serves as an additional reward in that difficult and interesting cases are presented and treated, to better prepare the graduate for practice or military duty.

Complete Denture Department

When I checked with Dr. James House, Chairman of the Complete Denture Department, this is what he told me. Summer-time is an active time in this department. Last year, 82 graduated sophomores started complete denture service for patients in our clinic. Seventy-six of these were completed through the delivery and post-insertion adjustment stages. The remaining five or so were delivered just after our much-welcomed vacation period in August.

This summer period is an important one in the new Junior student's dental school experience. We recognize that his first exposure to clinical activities may well set habit patterns and attitudes in dentistry which will stay with him a long time. Knowing this, it is our aim to stay especially close to him during this period and

guide him, nudge him, or praise him, as the situation may deserve, thus directing him toward a happy, challenging experience in his dental career ahead.

The Senior students are also active in their clinical work during the Summer period. Last year, 191 patients were under active care in the Complete Denture Department by our Senior class. Well over two-thirds of these patients were completed during this period because the Senior has attained a bit more speed of production than his counterpart Junior.

Obviously, our faculty is well occupied during the Summer session with clinical guidance periods. The lecture schedule is less, since no formal lecture periods are scheduled but this time is devoted to improvement of teaching aids for the following year. Really, there is little change during the year as to work load for the faculty and our time commitment is quite uniform during the eleven-month period. A good estimate might be "three hundred and sixty-five days of work compressed into about eleven months."

Surgery Department

Dr. Ronald Ping, Chairman of the Surgery Department, also carries on a very active Summer program for both the Junior and the Senior student. A conversation with him on the subject resulted in the following report of that Department's activities, in his words.

Senior students are given the opportunity of volunteering their time to operate patients in this clinic, utilizing the same days and hours as during the formal semester. Last year, at the end of the formal semester (May) we advised students who had made relatively poor progress in the first two semesters in this department to spend at least three to five half-days in the clinic to improve their aptitude in surgery. These students, plus those who had schedule difficulties (working, etc.) were given two days in which to "sign-up" for the maximum of three periods, and

then the remainder of the class (not having such difficulties) could sign up for an equal number of periods. At a given date, the schedule was open for students to sign up for as many periods as they could without jeopardizing their other clinic assignments.

Students working in the clinic during the Summer are permitted a wide variety of cases with close faculty supervision enabling them to become more proficient towards meeting the requirements imposed by this department in their senior year. Although they do not receive formal credit, the personal achievement has been such that the department has made its quota for volunteers, (all periods being filled). The experience gained is credited towards their overall oral surgery grade the Senior year. In reality, this department should be giving formal credit to students so serving, since the achievement is so meaningful to those participating. More advanced cases are operated in the routine clinic during the summer with students having the opportunity of assisting and operating according to their ability.

In general, most students "find themselves" during the summer session and are able to apply themselves and their knowledge much better during the final two semesters. The fact that students come to this department as Juniors further warrants the activities of the Summer session, since it would be difficult to offer them sufficient opportunities otherwise. The volume of experience for the Summer session is always greater than that for the formal semester, since there are less other activities. Students who are unable to attend clinics during the volunteer periods definitely have a difficult time meeting "satisfactory achievements" in this department, and leave with a lesser degree of knowledgeable skills in oral surgery.

Junior students are permitted in this clinic between their Sophomore and Junior semesters for the purpose of meeting requirements of "local anesthesiology." This

prepares them better for administering local anesthetics and relieves the complexities of orienting in both anesthesiology and surgery during the formal Fall Semester.

Considering (1) the increase in: (a) the number of students in each class, (b) the didactic material to cover, (c) the literature to be reviewed and studied, (d) the requirements of other clinics; (2) the decrease in the number of exodontic patients available during the formal semesters; (3) the facts: (a) that we have not increased the physical plant of this department, (b) that we are making additional student assignments to more hospitals and state institutions, (c) that we have not lowered the requirements nor accomplishments by our students. It would be next to impossible to achieve our objectives and graduate students on "the par, or better than expected of the past" without the Summer sessions.

Oral Diagnosis Department

Dr. David Mitchell, Chairman of the Oral Diagnosis Department, told me that they operate at essentially the same capacity during the months of June and July, as during the regular school year. However, during the Summer months, the students participate in the learning experience in the O.D. Department on a voluntary basis as opposed to being assigned during the regular school year.

The students "sign up" for one half-day per week and four are accepted for each half-day. Actually, the load for the faculty is a little heavier during the Summer months because of the volunteer students (Juniors) generally require more supervision and attention with routine examinations.

Obviously, Summer time is a busy time at the Indiana University School of Dentistry. Dr. Ping's statement that it would be virtually impossible to meet our objectives of undergraduate education with-

(Continued on page 62)

Notes from the Recorder's Desk

Mrs. Cleona Harvey, Recorder

Greetings from the Recorder's desk . . . It's a BEAUTIFUL day in Indiana, and we hope it is the same for you, wherever you are! I know it has been about six months since I last wrote greetings to you, but in some ways it seems like just yesterday. My, how time does fly—doesn't it?!—especially when one has been working at the same Recorder's job, in the same office, for the past 24 years. How many, many of you it has been my privilege to help along the way, worry about, and be joyful for when graduation day arrived . . . this has been the climax of your years of pre-dental and dental study . . . you achieved your dream! And we here have rejoiced with you.

Many of you have written and/or returned to say "hello" and to wish us well, and yet many of you have NOT written us. We'd like to know what's going on in your area; how you and your family have been, what you are doing, etc., etc., so DO write us. It is only by your cooperation that this column is a success, and we believe it HAS been interesting to those who read it, and we want to make it more so!

Your Recorder "lost" her "right arm" recently—Mrs. Benefiel, who has been assisting me for the past 22 years, retired February 29, and it is certainly a great loss to us. We know many of you remember her and will wish her well, as we do here.

Without further ado, here is news of the

Class of 1913

We received Christmas greetings from Dr. Raul Montero
3rd A. Ave. #8810
Miramar, Havana, Cuba.

Class of 1915

Dr. John C. Frasier
223 Richmond Drive, South East
Albuquerque, New Mexico
wrote us giving his correct address and informing us that he has retired from the active practice of dentistry.

Class of 1917

Dr. Carl Frech
1515 Chevy Case Drive
Sun City Center, Florida 33571
sent Holiday Greetings with a note, "*The weather here is superb, our community perfect.*"

Class of 1918

We received a change of address for Dr. Harry A. Schiess
6501 Woodland Drive
Gary, Indiana 46408

Class of 1919

Dr. Allen Mitchell
90 North Methodist Drive
Franklin, Indiana 46131
sent us his change of address.

Class of 1921

New address for Dr. Emmett A. Flint,
Route 1, Hanover, Indiana 47243.

Class of 1923

Dr. Nathan Welcher
2716 N. Central Ave.
Chicago, Illinois 60639
wrote he always enjoys receiving the bulletin, as it brings back memories of his school days, even if it was some 44 years ago. He sent his best regards to all.

Class of 1925

Dr. W. A. Shoemaker
4301 S. Ocean Blvd.

Delray Beach, Florida 33444

reports that he retired from practice in Mishawaka last July 15, after 42 years. They will be living in Mishawaka, 2820 S. Jamestown Ct. S., from May to November and then in Delray Beach. They would appreciate hearing from any retired or visiting dentists in Florida!

Class of 1928

We are sorry to report the death of Dr. Donald A. Musselman and Dr. James Daniel Pearson. Dr. G. T. Gregory gave us this information.

Dr. and Mrs. Leon W. Berger

723 Main Street

Beech Grove, Indiana

sent Season's Greetings.

Class of 1932

Dr. and Mrs. Seiya Nakamori

908 North King Street

Honolulu, Hawaii 96817

sent Christmas Greetings.

Class of 1933

Dr. Victor Jordan has a new address:

300 Water Street

Newburgh, Indiana 47630.

Class of 1935

Dr. and Mrs. M. J. Bean

224 Elm Drive

Hackensack, New Jersey

sent Christmas greetings—and then a card after having been to the Rose Bowl. They recuperated from that session with a Caribbean cruise.

We have been informed of the death of Dr. LeRoy F. Maas in Chicago on January 16, 1968.

We have the following address for

Dr. Arthur Stone

3309 Northampton Drive

Greensboro, North Carolina 27408.

Class of 1940

Dr. F. K. Etter sent us a change of address to

1308 N. Beverly Glen Blvd.

Los Angeles, California 90024.

Class of 1943

We have received a change of address for

Dr. R. Quentin Royer

2700 Bellflower Blvd., Suite 301

Long Beach, California 90815.

Class of 1945

We received an announcement from

Dr. John J. Calland

5506 East 16th Street

Indianapolis, Indiana 46218

regarding opening his office for the practice of general dentistry.

Class of 1947

Dr. Robert D. Denny sent us a change of address to

3477 Central Ave.

Riverside, California 92506

and Dr. and Mrs. Marvin A. Tuckman

Fair Lawn, New Jersey

sent Christmas Greetings.

Class of 1949

Dr. Donald H. Biggs sent a change of address to

114 Medical Arts Bldg.

3700 Bellemeade Ave.

Evansville, Indiana 47715.

Dr. R. Wendell Lee of Warsaw, died recently in the Mayo Clinic at Rochester, Minnesota.

Dr. and Mrs. Ernst Rosenthal

1266 Oliver Ave.

Indianapolis, Indiana

sent Season's Greetings.

Class of 1950

Dr. Jack Light

8750 Bay Parkway

Brooklyn, New York 11214

wrote recently; he informed us he is most happy in his work and remembers fondly the years he spent here at the Dental School.

Class of 1951

Dr. and Mrs. Charles Redish
3763 Broadway
Indianapolis, Indiana
sent Season's Greetings.

Class of 1952

Dr. Rafael Aponte
Box 1705
Ponce, Puerto Rico
sent us a clipping recently and we are happy to report that he has been president of the Rotary Club in Puerto Rico.
Dr. Harvey C. Chong
74 Ponahawai Street
Hilo, Hawaii
sent us his new address and best wishes.
Dr. Robert E. Newland sent us a change of address to
Suites 308-309 First Federal Savings Bldg.
Santurce, Puerto Rico.

Class of 1953

Had greetings from
Dr. and Mrs. William Crawford
4707 North Ritter
Indianapolis, Indiana 46226
and informing us that he and his wife had celebrated their 25th anniversary November 6. Congratulations go out to them!
We have a change of address for
Dr. Louis W. Disser
813 South Harrison
Shelbyville, Indiana 46176.

Class of 1954

Dr. and Mrs. Robert C. Johns
25 Monitor Place
Tucson, Arizona 85710
sent Christmas greetings.

Class of 1955

Dr. and Mrs. David Amos
5201 W. 22nd Street
Indianapolis, Indiana 46224
sent Christmas greetings.
Drs. Ursula and Werner Bleifuss
18786 San Quentin Street
Lathrop Village, Michigan 48075
sent Greetings and a short note regarding their "doings" recently . . . they had visited the Canadian Rockies and found them so beautiful.
Dr. and Mrs. Jordan Scull
5564 Madison Ave.
Indianapolis, Indiana
sent greetings of the Season.

Class of 1956

Received a change of address from
Dr. and Mrs. Louis D'Angelo
11 Revere Drive
Bristol, Connecticut 06010
and a Christmas greeting from
Dr. Young ok Lee
College of Dentistry
Seoul National University
111 So-Kong Dong
Seoul, Korea.

Dr. John E. Williams Jr. DC, USN
3rd Dental Company Sub-Unit 2 Hq.
Battalion
3rd Marine Division
FPO, San Francisco 96602
wrote, "*Have been in Vietnam for the past three months, the last two months at Dong Ha which is 10 miles south of the DMZ. I am executive officer of the 3rd Dental Company which is attached to the 3rd Marine Division. We have 25 dental officers spread along the marine camps of the DMZ. . . . Life becomes very interesting when in the midst of treatment we start receiving artillery fire from north of the DMZ and a mad dash is made for fox holes. I have more than once removed impressions from patients mouths while sitting in foxholes! Little did I realize that I would be practicing under these conditions when graduated in 1956.*"

Class of 1957

Dr. and Mrs. Pedro Colon

Box 1222

Caguas, Puerto Rico 00625

sent Christmas Greetings.

Dr. and Mrs. W. S. Scales

411 Exchange Bk. Bldg.

St. Augustine, Florida

sent us such a wonderful letter at Christmas that we wish to share it with you in its entirety, so here it is:

1967 with Scales'

Greetings Yo'all:

Well another Christmas Season is now upon us and once again it is the time for the Scales' family to sit down and reminisce with you and count our blessings for the past year.

The high light of our year is our being blessed by the addition of a new baby girl, Jane Michele Scales, adopted by us and born in November. She is a fine, healthy, happy, baby girl.

Elizabeth has had a healthy year even though she was temporary slowed down from her rapid pace by a disk operation done in May. She is enjoying herself being a housewife, mother of three children, full time bookkeeper, and part time dental assistant.

The boys have had an enjoyable year. Billy finished Kindergarten and is now in his first year of school. He is a healthy, happy, child. We are enjoying his sudden gain in weight from slim jeans to husky jeans since his previous illnesses seem to have subsided. He is enjoying First Grade very much and is doing quite well. He won the Good Citizenship award for his grade for the first six weeks grading period. Raymond is a lovable, rowdy, 4 year old, who is into everything. His pretty blue eyes just seem to sparkle with mischief. He is looking forward to beginning Kgn. next fall.

The boys enjoy their 2 calves, 4 goats, 2 horses, and 5 puppy dogs. They took

swimming lessons last summer and have learned to enjoy the water but as yet are not in any competition for any Olympic team.

Waldo has had a healthy year except for being in the hospital twice from over work and exhaustion. Our family physician put him in a private room, sedated him, and hung a no visitors sign on his door to make him rest for 2 whole days each time this condition occurred. He has had a wonderful year with his Dental practice for which we are all very grateful.

Waldo's farming keeps him busy when he isn't practicing dentistry. He has just purchased 280 acres more land which will make a total of 400 acres. He is enjoying his bulldozer and is just about to buy a three quarter yard dragline. All my boys have to have their toys to play with.

Again Waldo and his brother, Kenneth, returned to Walter Reed Medical Center, Wash. D. C. for a week of intensive post grad. study; they both took the surgery course given by the Southern Academy of Oral Surgery in Atlanta, and also a surgery course given this fall at the Univ. of Ky. in Lexington which were all very enlightening.

This is about the story of the Scales for this year. Why don't you come and see us or drop us a line.

Yours for a very Merry Christmas and Happy New Year.

Sincerely,

*Elizabeth, Waldo, Billy, Raymond,
and Jane Michele.*

Dr. and Mrs. George von Mohr

421 N. 9th

Blythe, California 92225

sent Christmas Greetings and Best Wishes.

Class of 1958

Dr. B. K. Poindexter sent us a change of address to

328 West Market

Bluffton, Indiana 46714.

Dr. Govind Shankwalker
Sir C. E. M. Dental College and
Hospital
Bombay 8, India

sent Season's Greetings and a note, *It is exactly ten years since I left Indianapolis. Since then lots of changes have taken place. Hope to see you again in Indianapolis shortly!*"

We have a new address for
Dr. Lewis J. Urschel
Davis Clinic
Marion, Indiana.

Dr. Alegria C. Zita
1357 Felina

Paco, Manila, Philippines
sent Greetings and best wishes to everyone in the School of Dentistry.

Class of 1959

We received Christmas Greetings from
Mr. and Mrs. Walter Henderson
P. O. Box 849
Kuwait, Arabia

with a note, *"Once again it's Christmas and Walter joins me in sending you and all our friends at I.U. School of Dentistry a Merry Christmas and a happy 1968. We haven't been on vacation this year but next spring hope to tour India after leaving Kuwait, spend some time in Europe before getting to the states. Our son is at the 'investigate everything stage' and he's so full of energy, I've been considering cutting down on his vitamins and taking them myself!*

—Hala Zawawi Henderson."

Dr. Paul B. Risk
3515 Peachtree Lane
Muncie, Indiana 47304

reported that he had moved to Muncie from Columbus, Ohio in May 1967; he received his Master of Science degree from Ohio State University June 13. He has been practicing in Muncie and has enjoyed his work.

He reported also on some of his activities, including several football games

including the Old Oaken Bucket clash which sent the Hoosiers to Pasadena—attendance at the A.D.A. convention in Washington, D. C. He also reported their two boys, Scott and Jim, like their new home and have made several friends. . . . He sent best wishes to all.

Class of 1960

Dr. Peter Reibel sent an announcement of his new location at
7172 North Keystone Ave.
Professional Bldg., Suite #E
Indianapolis, Indiana

Class of 1961

Dr. Ronald Bowman reported his new address

6000 E. 46th Street
Indianapolis, Indiana 46226.

Dr. H. R. Netzhhammer
1601 Truman
Valparaiso, Indiana
sent change of address.

Dr. and Mrs. R. J. Schoeps
457 James Street
Spencer, Indiana
sent Christmas Greetings.

We have a change of address for
Dr. Alphonso Trottmann
3420B Laclede
St. Louis, Mo. 63103.

Dr. J. E. Vaught, ICDR, DC, USN
Defense Atomic Support Agency
Clarksville Base, Clarksville, Tenn.
37040

reports he is enjoying his duty in Tennessee . . . it is beautiful this time of year. He reported they had been in Cuba, Florida and Spain, all of which had very temperate climates.

He says, *"We were very happy to return to the states but left Spain with some remorse; we had wonderful friends there, both American and Spanish. We traveled as best we could with three small boys, but did see much of southern Spain and*

northern Africa. I also went to the Holy Land on a tour from the base. This was the high light of my two years in Spain.

"I have independent duty here at Clarksville Base and could not be happier. We have lovely quarters and good living conditions.

"Best regards."

Dr. Robert Winkler

2021 North Central

Phoenix, Arizona 85004

sent Christmas Greetings. He had reported earlier that he and Deanna went to Europe last summer to attend the International Dental Meeting in Paris, and while there drove throughout Europe. They spent almost three weeks behind the Iron Curtain, about two of which were spent in Bulgaria . . . it was a very interesting trip.

He reports that Deanna is still in college—Vicki in the third grade—Bobby in the first and Dawn in kindergarten . . . even Bob is taking a course at a junior college!

Dr. and Mrs. Merlin Wuebbenhorst

1177 N. E. 8th St.

Delray Beach, Florida

sent Christmas Greetings.

Class of 1962

Dr. Noritaka Kitajima announces the removal of his office to

Suite 1, 930 South Knott Ave.

Anaheim, California 92804.

Dr. and Mrs. Edwin H. Sakurai

1713 N. Quarry Rd., Apt. 113

Marion, Indiana

sent Christmas Greetings.

Dr. and Mrs. Clarence Wentz

4412 West Indiana Avenue

Elkhart, Indiana 46514

sent Christmas Greetings.

Class of 1963

Dr. Eugene L. Dellinger announces relocation of his office to

4233 East State Blvd.

Fort Wayne, Indiana.

Dr. and Mrs. Peter Leonard

2760 East 25th

Columbus, Indiana

sent Christmas Greetings.

We received a change of address for

Dr. D. C. Lind

605 West Franklin

Winchester, Indiana 47394.

We have received the following address for

Dr. Jon Michael

2808 Ashland Street

West Lafayette, Indiana 47906.

Class of 1964

Dr. George Foster sent us the following address

USS Monrovia

APA 31

EPO New York, New York 09501.

We also received a change of address for

Dr. Kenton S. Hartman, Capt.

355th TAC Dispensary (RACAF)

APO San Francisco, California 96273.

Dr. Jon Robert Lindsay

Fresno General Hospital

Fresno, California

reports, "*Since graduation from IUSD in 1964, I have been occupied with various oral surgery training programs, and in July 1966 I started this oral surgery residency which will be completed in June 1968.*"

Dr. T. W. Shimer reported the following address:

3rd General Dispensary

APO New York 90164.

Class of 1965

We received a letter from

Dr. Bradley A. Baetsle, Cap.,

05540770

40th Med. Det., DC

APO San Francisco 96353

and his letter was so interesting we wish to quote from it as follows:

"I arrived in Vietnam some seven months ago . . . after spending four and

one-half months with our parent unit, the 40th Dental KJ team in Cu Chi, Vietnam, I rotated to one of our outlying clinics at Dan Tieng, Vietnam. It is from Dan Tieng that I am writing. The base is located approximately 60 miles northwest of Saigon and 15-20 miles east of the Cambodian border.

Our dental setup here is very nice when one considers this is a war zone field situation. We operate a three-man clinic here. The clinic itself is a wooden frame structure with a tin roof and cement floor. It isn't airconditioned, but with the cool shade of surrounding rubber trees, it really isn't necessary. Our dental units consist of Encore high speed field units, slow speed engines, Ritter pump chairs, vacuum system and field light. We also have dental stools to enable the operator to sit down while working. Once you get used to it, it is a rather comfortable operating environment.

"Our capabilities here encompass all phases of dentistry except crown and bridge, and orthodontics. Our mission is to provide dental treatments for the GIs here and thereby help keep him an effective soldier. We are kept quite busy. Naturally most of the patients need operative dentistry. However, prosthetics, endodontics and surgery are also in great demand. This has provided me with some wonderful experience. I feel it will be very helpful in my orthodontic training. I certainly enjoy dentistry and have found it to be quite rewarding. You would be surprised what a morale factor it is with these fighting men over here. They really deserve our whole-hearted support. Most of these men are so young and are doing a tremendous job.

"The climate in this area of Vietnam is very nice. The skies are sunny every day, and the temperature is mild. The evenings are even cool (68). One reason for the pleasant environment is the pres-

ence of innumerable rubber trees on the base. The base is located on a former French rubber plantation. . . . I am looking forward to my return home."

Dr. Roger Carroll informs us of his address

709 East Main Street
Brownsburg, Indiana 46112.

Dr. Wallace F. Chong
74 Ponahawai Street
Hilo, Hawaii 96720

writes, "I'm in the process of setting up offices in Hawaii with my brother, Harvey . . . just finished two years in the Navy . . . saw Ralph Phillips and Bill Gilmore when they were here. See Walt Ching and Pat O'hara occasionally. . . . Best regards to everyone."

We have an address for
Dr. and Mrs. Jonathan S. Comer
761 North Indiana
Mooresville, Indiana 46158.

Dr. John C. Hoerath
Box 2757
355th USAF Dispensary
APO San Francisco 96273

writes, "Greetings from, would you believe Thailand? Am at a large Air Force base here doing general dental work. With the addition of our new third dentist our three chair clinic is complete. We have fair equipment and can do most any kind of dental service. We each do whatever the patients need . . . perio, operative, endo, surgery, etc. And further, would you believe our new dentist is Ken Hartman, IUSD Class of 1964?"

"Best wishes."

Received a new address for
Dr. David L. Miller, Lt., DC USNR
960 Ivy Court
Lemoore, California 93245

and a new address for
Dr. Michael J. Ternisky
6 Newton Street
Manchester, New York 14504.

Class of 1966

Dr. and Mrs. Carl J. Andres
1240A Capehart
Anderson AFB, Guam
APO San Francisco, California 96334
wrote saying they are enjoying life . . .
visited Japan and Taiwan, and that time
flies for them.

We received an announcement that Dr.
Stephen D. Beeker recently opened his
private practice and his address is
201 East Limils
Mancelona, Michigan 49659.

Class of 1967

Dr. James Barenie reports his address
is
820 East Main
Rochester, New York.

Dr. James Buzalski reports his address
as
303 S. Main
Mishawaka, Indiana 46544.

Dr. Jeffrey Coulter reports
Quarters 382-D
Marine Corps School
Quantico, Virginia 22134.

Capt. Ronald W. Krantz reports
120 Malibu, Apt. C16
Clarksville, Tennessee 37940.

Dr. Harold I. Odle reports his address
is
533 Keenan Ave.
Fort Myers, Florida 33901.

Dr. Thomas F. Pequignot reports his
new address is APO New York 09169
and Dr. Richard L. Stanley reports his
address is
Suite 308 Los Alas Bldg.
309 S. Andrews Ave.
Fort Lauderdale, Florida 33301.

Dr. and Mrs. Jerry Travelstead
916 East Main
Brownsburg, Indiana
sent us Christmas greetings with a pic-
ture of Jerry, Jr. and Capt. Dale E.

Wurstner sent us his new address:

8120-C Second Street
Wurtsmith AFB, Michigan 48753.
Dr. James C. McAllister, (Lt., DC,
USNR)

USS Hornet (CVS-12) Dental Division
FPO San Francisco, California 96601
writes as follows:

*"As you may know, I am with the
Navy stationed aboard the USS Hornet,
an aircraft carrier out of Long Beach,
California. I have found this to be a very
unforgettable and also very educational
experience. I have become aware of the
high quality of the education I had re-
ceived and am very proud to say that I
graduated from Indiana University School
of Dentistry. I and two other dentists on
board have the responsibility for approxi-
mately 3500 men and their total dental
treatment. We have been given the latest
in equipment and materials, and have all
the cooperation one could ask for in the
service. I feel very fortunate in having
my present assignment."*

We thought, since this is their 50th
anniversary, you might like to see the
names and addresses of the Class of 1918:

Dr. Oral D. Adams

#4 Masonic Bldg.
Tipton, Indiana

Dr. Lex Clyde Arnett
No Trace

Dr. Charles E. Arnold
Deceased

Dr. Merrill Baker
Deceased

Dr. Harry Sanford Banks
Deceased

Dr. Alvin E. Barkes
Deceased 1964

Dr. Forrest R. Bell
8 North 31st Street
Lafayette, Indiana

Dr. Frank Merrill Belt
Leininger Jontz B
Akron, Indiana

Dr. Marvin T. Botkin
Deceased

Dr. Frank Wilson Boyd
Deceased

Dr. Runo Gustav Brodeen
Deceased

Dr. R. V. Brown
Deceased

Dr. Harry Edward Bruner
Deceased

Dr. Rodolfo Antonio Campani
Deceased

Dr. Lester M. Choate
Deceased

Dr. Arthur E. Christerson
No Trace

Dr. Clarence F. Coleman
Lakeville, Indiana

Dr. Raymond Collins
Deceased

Dr. George Martin Cropp
Shoals Bank Bldg.
Shoals, Indiana

Dr. Matthew S. Cuff
Deceased

Dr. Charles S. Davis
Deceased

Dr. Fenton Booth Davison
123 E. Main Street
Mentone, Indiana

Dr. Ross Leonard Davison
Deceased

Dr. Enoch H. Derrick
Deceased

Dr. Millard E. Dill
Deceased

Dr. Harold C. Downing
No Trace

Dr. Edgar Frank Duvall
105 So. West Street
Spencer, Indiana

Dr. Arthur Wilhelm Edman
Deceased

Dr. Willis Burnett Eggleston
201 South Center Street
Royal Oak, Michigan

Dr. John Sylbert Eilar
Medical Arts Square
Albuquerque, New Mexico

Dr. John Alonzo Elliot
Deceased

Dr. Harry Epstein
Deceased

Dr. Noble Rex Fox
Deceased

Dr. Edgar A. Frantz
217 Pettibone
Crown Point, Indiana

Dr. Hugh Jerome Gallagher
Deceased

Dr. Perry Garman
Deceased

Dr. John Bruce Gordon
Deceased

Dr. William Orville Godwin
Deceased

Dr. Cameron N. Griffith
611 S. 44th Street, Apt. 3
Louisville, Kentucky

Dr. R. L. Guedel
224 Pleasant Run Pky., Drive
Indianapolis, Indiana

Dr. Frank L. Hubbard
Deceased

Dr. Earl Edward Hoffa
Deceased

Dr. Frank Carlisle Hughes
Deceased 4-2-63

Dr. Donald F. Irwin
No Trace

Dr. Von L. Kennedy
Deceased

Dr. Carl P. Kretsch
No Trace

Dr. Neal M. Loomis
No Trace

Dr. Earl Lawrence McKee
314½ Main Street
Delta, Ohio

Dr. John E. Martin
Deceased

Dr. Robert E. McKee
2221 N. 49th Ave.
Hollywood, Florida

Dr. Cullen B. Meckel
Deceased

Dr. Elmer Hartman Miller
Deceased

Dr. Carl Frederick Morganthaler
Deceased

(Continued on page 62)

Class and Fraternity News

JUNIOR CLASS

The junior class members appear to be very busy with their clinic work fulfilling requirements for graduation. Most of the students attended summer school and were well adjusted to the paper work and procedures required by each department before the beginning of the actual school year.

Dr. Segraves, our Director of Clinics, was nominated and elected sponsor for our class. The class officers for this year were elected and are as follows: President, Rock Osmon; Vice-President, Mike Mann; Secretary, Judy Fry; Treasurer, Jean Radike; A.D.A. Representative, John Vornholt; Councilmen, Bob Harmon and Carl Peek.

The treasurer, Jean Radike, has been kept busy collecting dues which are \$5.00 per semester.

Due to Indiana's outstanding performance this year in football, our class thought the least we could do to contribute would be to donate money for the float committee. Several class members were able to attend the Rose Bowl in Pasadena and Dr. Gilmore presented some slides that he took while watching the outstanding feature of the game.

Everybody was relieved after our first half of our National Boards were completed December 5th. Rock Osmon had made previous arrangements to have a party after the National Boards. After our last final exam for the first semester almost the entire class went to the Parkway where they could drink as much beer as they wished from 11:00 a.m. to 5:00 p.m.

Out of those exhibiting a table clinic, we are looking forward to having a winner. That trip to Miami, Florida sure does sound inviting.

Judy Fry, Secretary

ALPHA OMEGA

The Alpha Omega fraternity is continuing to offer a variety of events for its members at Indiana University. During the fall semester, we introduced the prospective members from the freshman class to the dental specialties by inviting them to visit local specialties within the Alpha Omega alumni chapter. The purpose was to expose these neophyte Dental students to the tremendous diversities of the dental profession, to give them a feeling of belonging and a closer tie to the A.O. alums.

We continue our program for the spring semester with visits to the dental specialists for the Junior and Senior members. This will provide our upperclassmen with an opportunity to view each specialty in a more personal and private relationship. We will also gain ideas in office management and office arrangement.

Our fraternity has also been participating in the monthly dinner-discussion meetings of the Indianapolis A.O. Alumni chapter. Our plans for the remainder of the semester include an undergraduate golf outing and the annual Senior Farewell Banquet.

The 1967-68 year for the Alpha Omega chapter has been both rewarding and enjoyable. We look forward to next year's program with the hope of continuing our professional growth.

Douglas Barton, Secretary

XI PSI PHI

Well, the second semester is well under way. It finds everyone busy with new techniques and projects which, of course means a lot of lab work, and the 'ole ZIP lab' is really buzzing.

The freshmen and actives have been enjoying some TGIF parties and we are looking forward to our next dance. Now that pledging was over an initiation and activation ceremony for those new members was March 8th.

Seniors are beginning to think about the end of the year, completion of requirements, and then that wonderful time when they will be awarded the title of "Doctor"—a time which they have long awaited. We will be honoring the seniors with a banquet in May. This is something that everyone enjoys.

It is time once again, now that summer is getting closer, to think about more remodeling and refurbishing of the house. This year we plan to expand the party area.

Well, as you can see, things are ever on the move at the ZIP House as we all work feverishly toward that final goal—D.D.S.

Frederick R. Swain, Editor

DELTA SIGMA DELTA

This year has been a busy and exciting one for Delta Sigma Delta members. The attendance at monthly meetings and participation in all house functions has been very good. It seems that each class has been doing its share

of the responsibilities which has produced a very favorable attitude among members.

There has been a dance every month since September and this will continue through the month of May. Early this year a "Rush" party was given honoring possible initiates from the freshman and sophomore classes. Our thanks to the dental assistants and dental hygienists for helping us make that party a complete success. Entertainment was provided by the dancing of "Karen" and by the remarks of faculty Delta Sigma Delta members. A few of the guest speakers were Dr. Gilmore, Dr. Maesaka, Dr. House, Dr. Mitchell and Dr. Day.

We have had several guest speakers at certain monthly meetings this year and our thanks to Chuck Pollard for arranging these. Dr. Mitchell spoke on the validity of news articles, research and other dental research literature. Representatives from a popular Tyconium laboratory here in Indianapolis gave a very interesting and informative presentation on Tyconium partial frameworks. Also a very good outline was presented on the importance of insurance to the dentist when he gets into private practice.

We are very proud of the Rush Program co-ordinated by Dave Wheeler and Steve Nelson. Their hard work was greatly appreciated and Delta Sigma Delta is very happy to welcome one of our largest pledge classes in the history of the fraternity. Fourteen sophomores and twenty-eight freshmen were initiated early this spring and we are happy to welcome these young men as members of Delta Sigma Delta.

Joe Grider, President, has done a tremendous job this year in instilling incentive to the Delt members. His hard and constant efforts have been very instrumental in providing the leadership necessary for an organization to be successful. Joe will also be the Moderator of the Delta Sigma Delta conclave of which the Indiana Chapter is host this year.

Special recognition should also be given to Dave Phillips, Ron Duch, Hank Feinberg, Bob Schreck, Rick Danishek, Ray Tanaka and Mike Glassley for their hard work in all house maintenance. Our hats off to Paul Schneider for doing an excellent job in maintaining the lab. There is always plenty of materials available and the lab has been kept in "tidy" conditions year-around.

The biggest dance of the year, our Hawaiian Luau, is one function that all members, including our Graduate Chapter, look forward to each spring. Last year almost \$2,000 was spent on this lavish feast which is high-lighted by Dr. Maesaka's secret "sauce." Pineapples, watermelons and the steak dipped in Saki's

"sauce" is a delight which lasts from 6:00 to 2:00 a.m.!

Also, for the first time ever, we are trying to set up our annual golf tournament so that we can honor John Pont, Coach of The Rose Bowl Hoosiers, and everyone's COACH of The Year. John has notified us that he will be able to come probably after spring football practice. We believe this might increase a "little" enthusiasm with this year's Delt golf outing!

Our hats off to the graduating seniors. They have been fine leaders in the fraternity and will be greatly missed next year. We wish them all of the good fortune possible in the future and we know that their participation in their local Graduate Chapter will benefit wherever they may go. Our thanks also to our Deputy Advisors, Dr. Thompson, Dr. Moore and Dr. Robinson. Their support has been appreciated by everyone concerned.

Until next year—good luck, good health and good dentistry! !

Rock Osmon, Scribe

PSI OMEGA FRATERNITY

The Psi Omega Wives Club began the 1968 social season by treating their husbands to a delicious chicken dinner at the fraternity house on the 24th of January. Several people won prizes in the wild bingo game afterward.

Freshmen and active members together paused to relax and enjoy a T.G.I.F. party at the house the first week in February.

On February 16 Casino Night, the biggest interfraternity party of the school year, proved to be major success again. All undergraduate and graduate students plus the alumni were invited to come and test their skill and luck in the various activities and games conducted during the evening.

Several members and their wives journeyed to the "windy city" recently to attend the opening of the Chicago Dental Society's Mid-winter Meeting at the Conrad Hilton Hotel. For those who have never attended this convention, let me say it is a spectacular event.

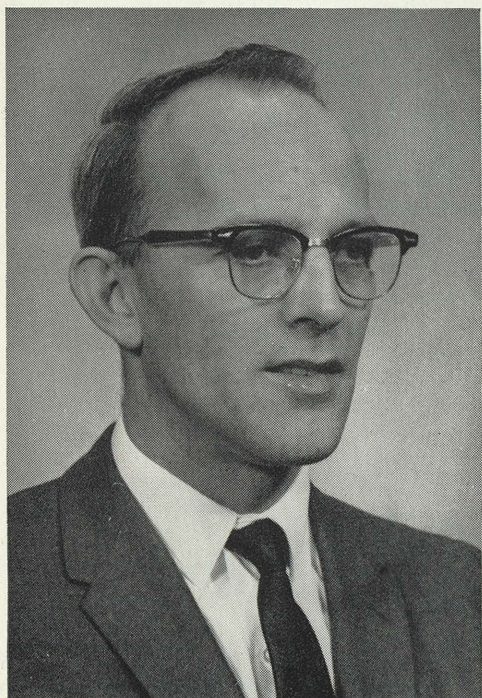
Presently Omega Chapter is in the process of helping organize the alumni of Psi Omega who reside in the state of Indiana. This is being done under an "every member (alumni) visitation program." When the active members of Omega Chapter return to their hometowns at vacation time, they have the names of alumni in that area whom they are to contact. Explaining the program and verifying names, addresses, graduation dates, etc. is the purpose of the visit. We hope that Indiana will soon have an active alumni chapter similar to those of some of our neighboring states.

Bob Rimstidt, Editor

Graduating Class of 1968

The senior class wishes to dedicate these few pages to two men who have dedicated themselves to teaching and guiding students to become members of the dental profession. During the past four years, Dr. Drexel A. Boyd and Dr. George Mumford have either individually or together served as sponsors of this senior class. They have been teachers, advisors and personal friends to each one of us. It is with the utmost respect and admiration that we thank these gentlemen from our hearts.

Phillip Pate

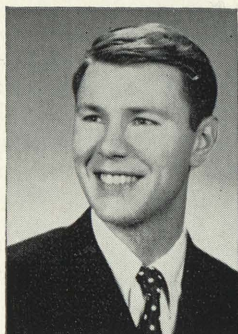


Dr. George Mumford

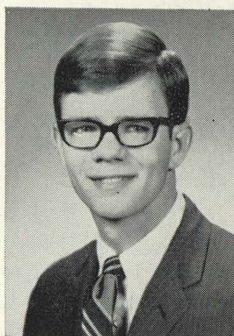


Dr. Drexell Boyd

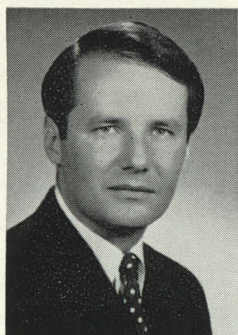
The two faculty members to whom the following pages have been dedicated by the Class of 1968.



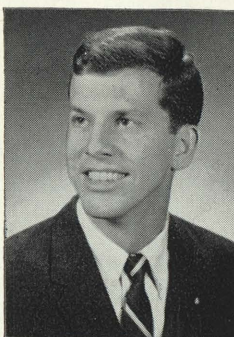
JEFFERY P. ALLEN
Class President 1
Student American Dental Association
Basketball



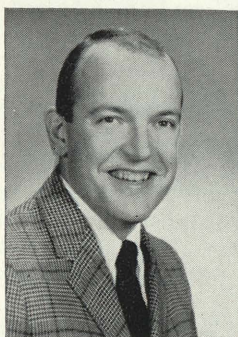
CULLEN L. ATHEY, JR.
Psi Omega
Student American Dental Association
Member of Union Board



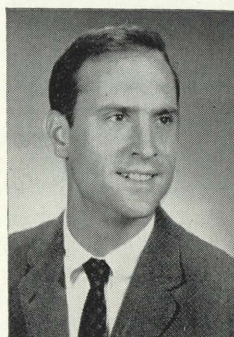
ROBERT B. ANGERMANN
Psi Omega—Vice President 2, President 3
Student American Dental Association—
President 2
President—Interfraternity Council 3
Fraternity Achievement Award 3
Indiana A.D.A. Award 2
Student Council 1



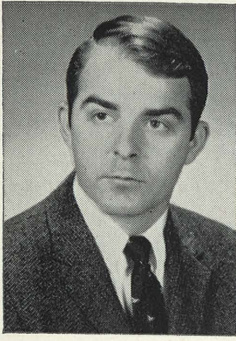
WILLIAM H. BEGEMAN
Psi Omega
Student American Dental Association



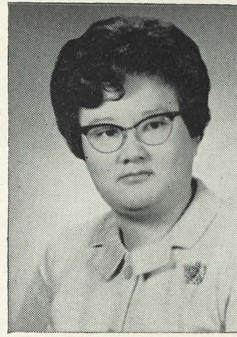
JOSEPH H. ANTONINI
Student American Dental Association



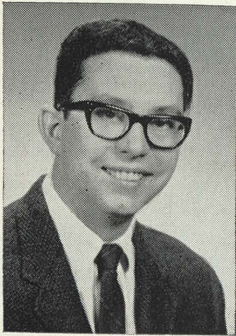
RICHARD BIRCHLER
Student American Dental Association



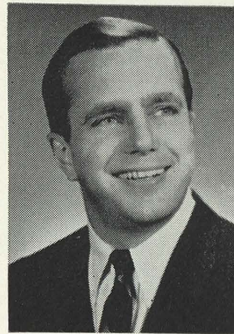
ROBERT L. BONHAM
Delta Sigma Delta
Student American Dental Association



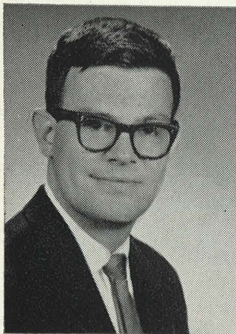
GERALDINE CHAN
Class Secretary
International Relations Club—Vice-President



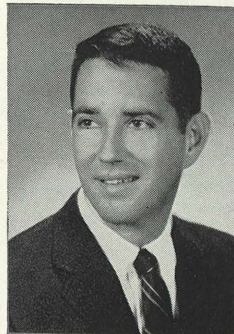
J. MICHAEL BOYD
Delta Sigma Delta—Senior Steward
Student American Dental Association



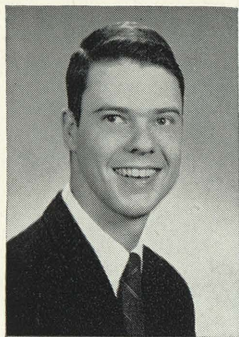
WILLIAM D. CLARIDA
Delta Sigma Delta
Student American Dental Association



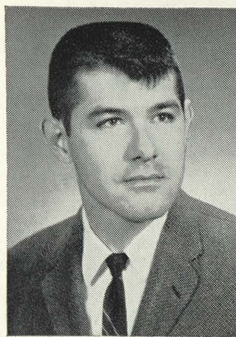
ROBERT L. BRATTON
Psi Omega
Student American Dental Association



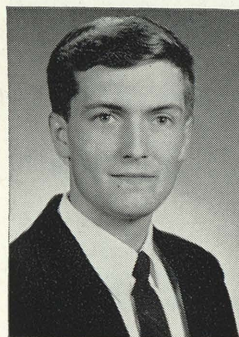
PHILIP CLARK
Delta Sigma Delta
Student American Dental Association



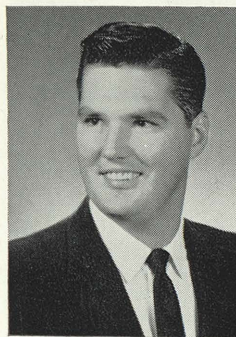
L. KEITH COHOON
Psi Omega
Student American Dental Association
Basketball



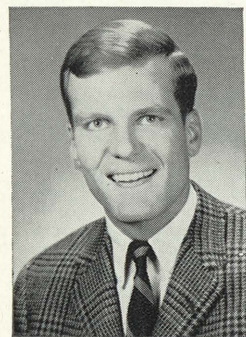
STEPHEN F. CULLISON
Psi Omega
Student American Dental Association



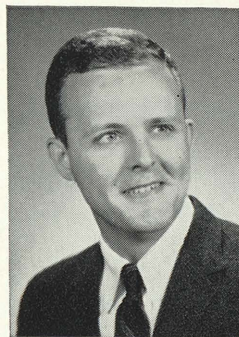
DAVID COLLINS
Psi Omega
Student American Dental Association



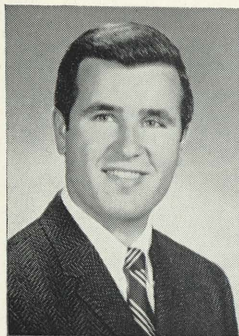
PETER J. CZAJA
Psi Omega
Student American Dental Association



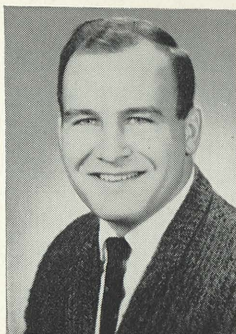
GORDON CRUICKSHANK
Delta Sigma Delta
Student American Dental Association
Basketball



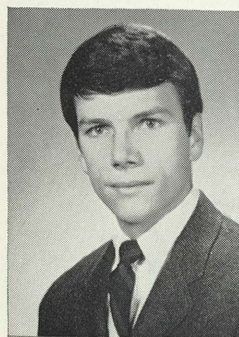
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Delta Sigma Delta
Student American Dental Association



DONALD JOE DECKER
Delta Sigma Delta
Student American Dental Association



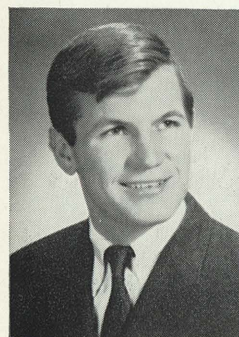
PHIL JOSEPH DYSLER
Xi Psi Phi
Student American Dental Association



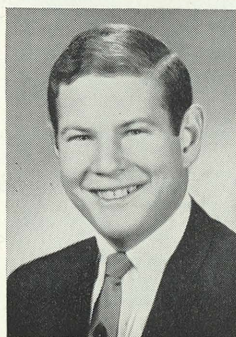
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Psi Omega
Student American Dental Association



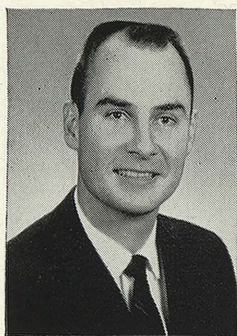
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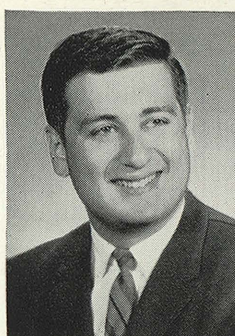
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Delta Sigma Delta
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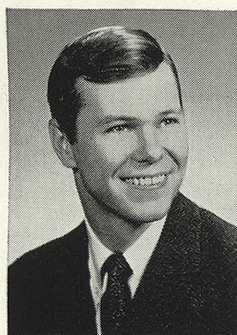
DAVID W. EPSTEIN
Alpha Omega—President 3
Student Union Board—President 4
Interfraternity Council—President 3
Student American Dental Association



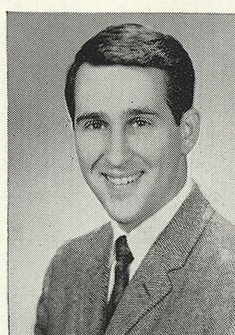
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Student American Dental Association



HENRY B. FEINBERG
Delta Sigma Delta
Class Treasurer 3, 4



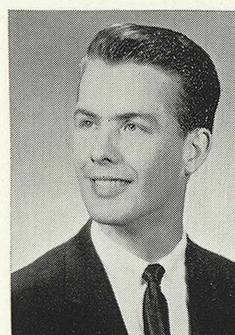
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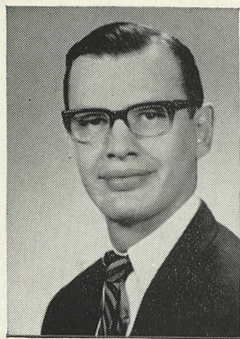
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Alpha Omega
Student American Dental Association



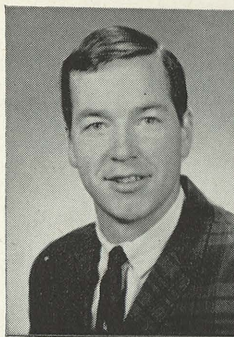
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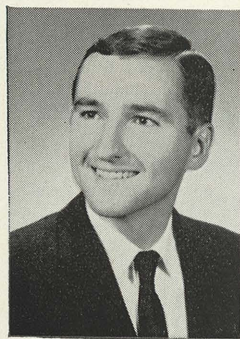
CLETIS FOSTER
Xi Psi Phi—House Manager
Student American Dental Association



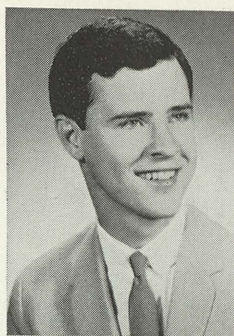
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Student American Dental Association



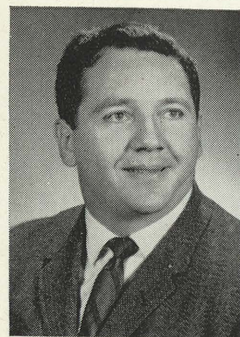
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Student American Dental Association



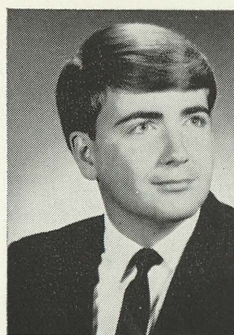
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Delta Sigma Delta
Student American Dental Association



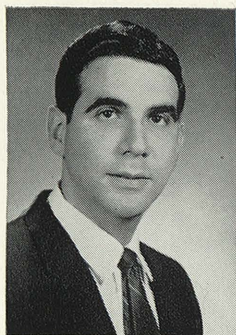
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Psi Omega
Student American Dental Association



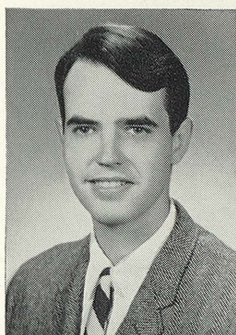
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Delta Sigma Delta—Scribe 3, President 4
Student Council—3, 4
Interfraternity Council
Student American Dental Association—
Vice-President 2



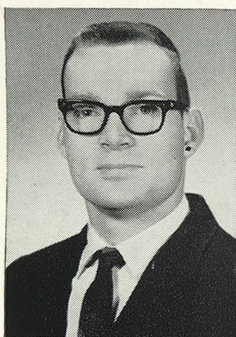
HARRY JONES
Delta Sigma Delta
Student American Dental Association



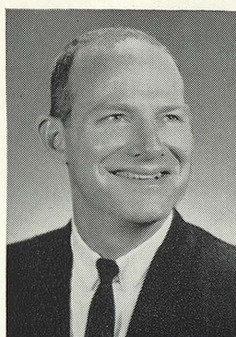
RONALD KASEFF
Alpha Omega—Treasurer
Student American Dental Association



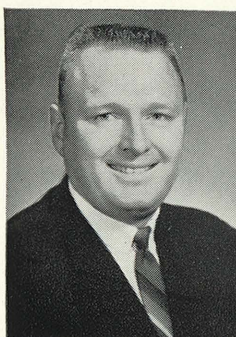
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Delta Sigma Delta
Student American Dental Association



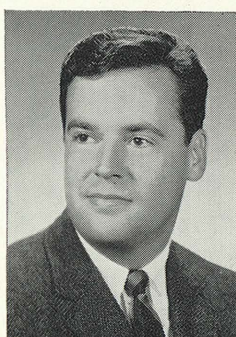
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Psi Omega—Secretary 2, 3, 4
Student American Dental Association
Basketball



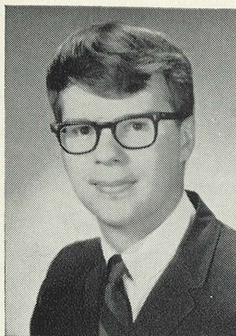
H. GEORGE KRULL
Delta Sigma Delta
Student American Dental Association



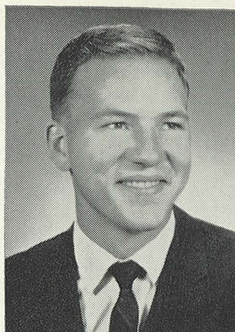
JOHN HOWARD KNEIPPLE
Psi Omega
Student American Dental Association
Basketball



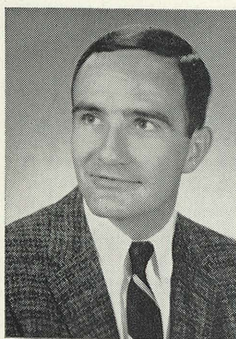
JAMES M. LANGENFELD
Psi Omega
Class President 3
Student American Dental Association



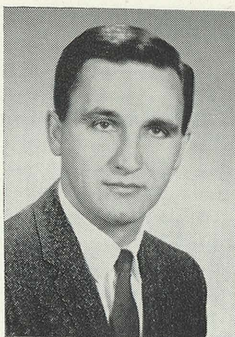
THOMAS H. LAPP
Delta Sigma Delta
Student American Dental Association
Class Student American Dental Association
Representative
Student Council 2



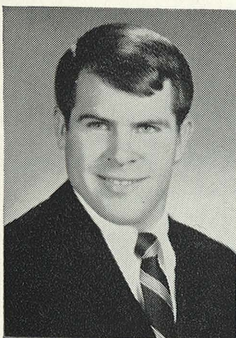
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Delta Sigma Delta
Student American Dental Association



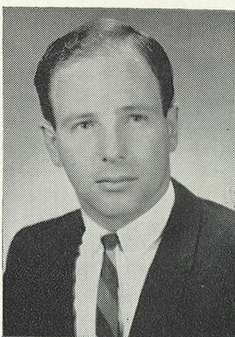
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Psi Omega
Student American Dental Association



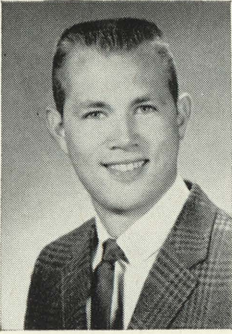
ANATOLY LUBARSKY
Student American Dental Association



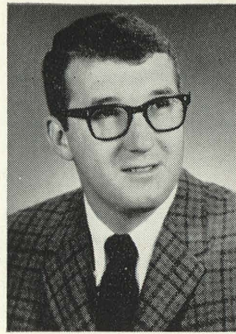
ROBERT P. LINDEMAN
Delta Sigma Delta
Student American Dental Association



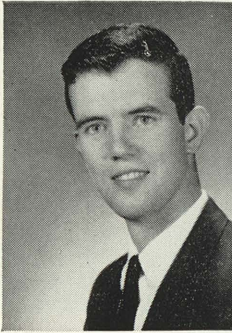
THOMAS MAGNETTI
Delta Sigma Delta
Student American Dental Association



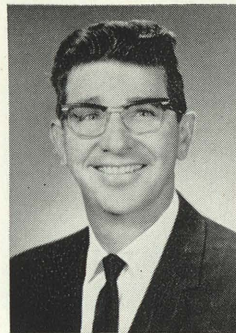
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Delta Sigma Delta
Student American Dental Association



PAUL MOSELE
Delta Sigma Delta
Student American Dental Association



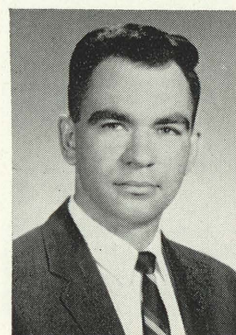
ROBERT P. MESSERSMITH
Delta Sigma Delta
Student American Dental Association



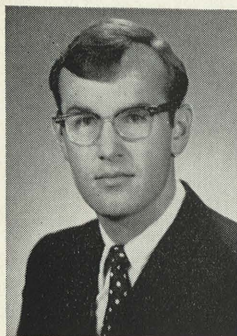
JAMES L. MULLIS
Psi Omega
Student American Dental Association—
Treasurer 2



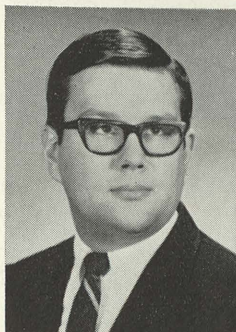
CHARLES MILLER
Delta Sigma Delta
Class Secretary 2
Student American Dental Association



NORMAN NOVAK
Psi Omega
Class President 2
Student American Dental Association



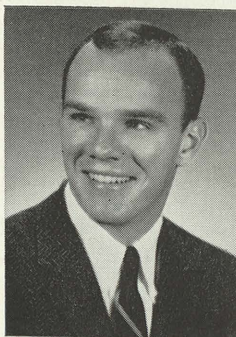
PHILLIP R. PATE
Delta Sigma Delta
Class Vice President 3
Class President 4
Student American Dental Association—
President 3
Basketball
Co-editor Dental School Yearbook



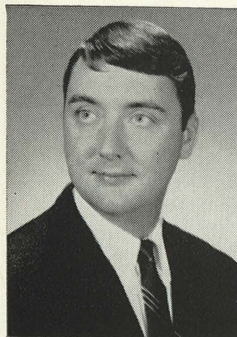
CHARLES POLAND III
Delta Sigma Delta
Student American Dental Association
Student Council 3, 4
Basketball



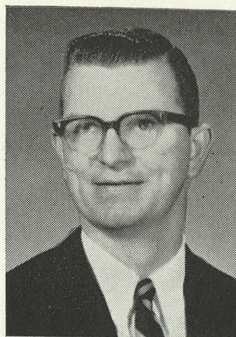
JOSEPH PESUT
Psi Omega—President 4
Interfraternity Council 4
Student American Dental Association—
Sec.-Treas. 3
Class Student American Dental Association
Representative



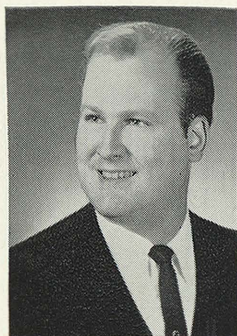
TIMOTHY RAVENCROFT
Delta Sigma Delta
Student American Dental Association



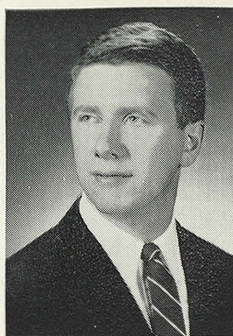
DAVID M. PHILLIPS
Delta Sigma Delta—Social Chairman 4
Student American Dental Association
Basketball



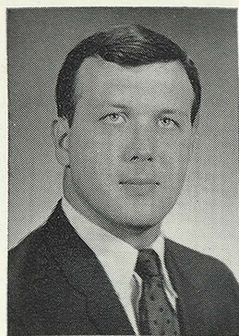
ROBERT RIMSTIDT
Psi Omega—Editor
Student American Dental Association



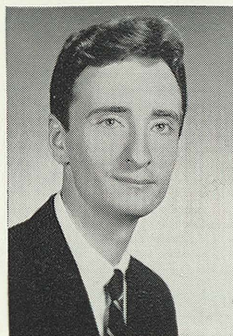
RICHARD ROCHMAN
Alpha Omega—Secretary 3
Student American Dental Association



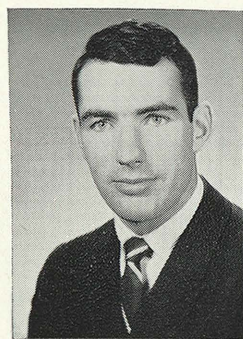
GEORGE WAYNE SHAD
Delta Sigma Delta
Student American Dental Association
Basketball



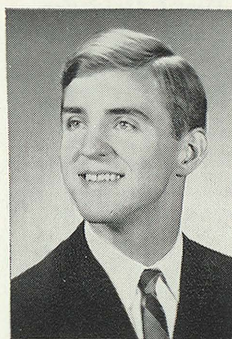
THEODORE A. ROKITA
Student American Dental Association



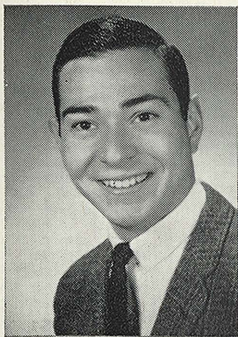
WILLIAM O. SCHELM
Psi Omega
Student American Dental Association



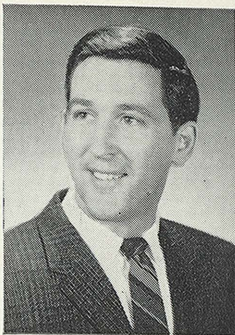
RICHARD D. RUDICEL
Delta Sigma Delta—House Manager
Student American Dental Association
Basketball



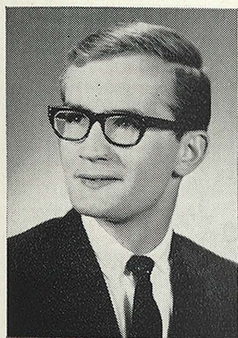
PAUL SCHNEIDER
Delta Sigma Delta
Student American Dental Association



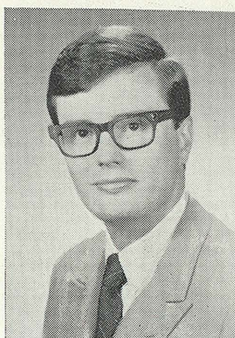
ROBERT SCHRECK
Delta Sigma Delta—Historian
Student American Dental Association
Class Student American Dental Association
Representative 4



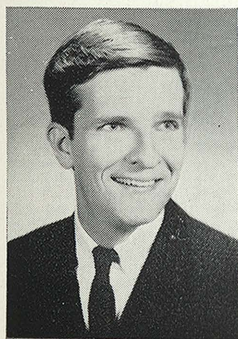
ROBERT L. SIEFKER
Psi Omega
Student American Dental Association



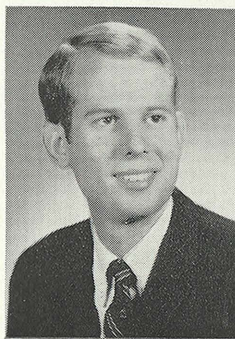
ANDREW SERAFIN
Psi Omega
Student American Dental Association



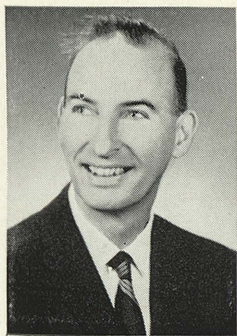
CHARLES M. SIMONS
Psi Omega—Editor
Student American Dental Association—Editor
of Student American Dental Association
Newspaper
Co-editor of Dental School Yearbook



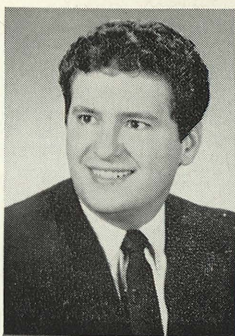
FRANCIS J. SHEMBAB
Psi Omega
Student American Dental Association



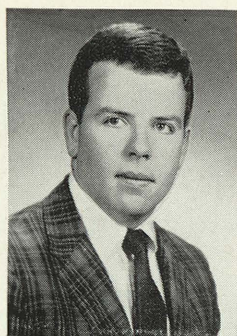
CHARLES R. SODERQUIST
Delta Sigma Delta—Vice President 3
Student American Dental Association



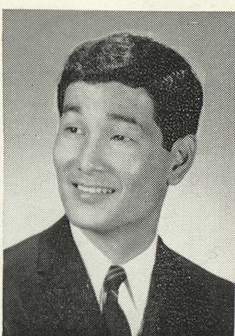
JACK SQUIBB
Student American Dental Association



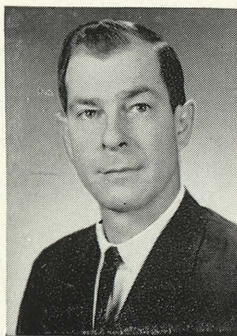
WALLACE F. STRAIN, JR.
Student American Dental Association



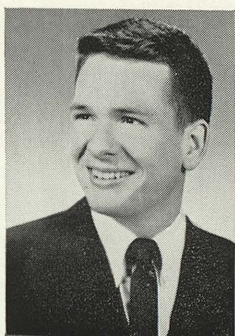
THOMAS STEINMETZ
Student American Dental Association
Basketball



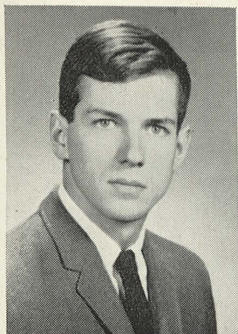
RAYMOND H. TANAKA
Delta Sigma Delta—Treasurer 2, 3
Class Vice-President—1
Class Secretary—4
Student American Dental Association



JOHN STIEGLITZ
Xi Psi Phi—President 4
Student American Dental Association



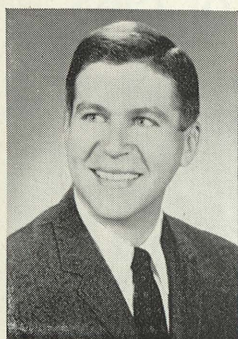
STEPHEN H. TROYER
Delta Sigma Delta
Class Vice-President 2, 4
Student American Dental Association



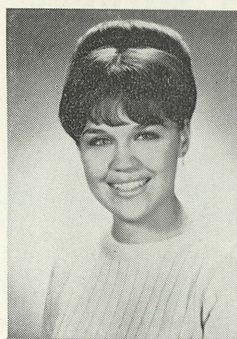
PAUL R. VAN DORN
Delta Sigma Delta
Student American Dental Association



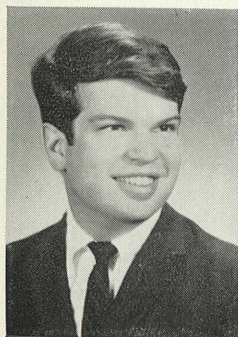
DAVID WAGNER WHEELER
Delta Sigma Delta—Rush Chairman 4
Student Council 4
Student American Dental Association



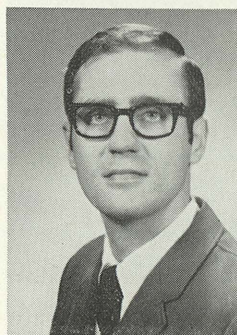
LEONARD J. VINCENT
Student American Dental Association



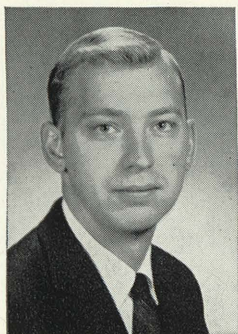
VIRGINIA WIESJAHN
Upsilon Alpha
Class Secretary Northwestern 1, 2
Class Secretary Indiana 3
Student American Dental Association



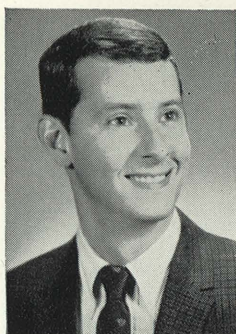
NICHOLAS WATSON
Delta Sigma Delta
Student American Dental Association



JAMES WRIGHT
Psi Omega
Student American Dental Association

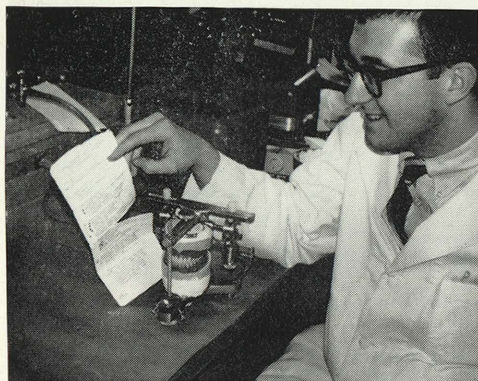


JOHN DAVID YONKMAN
Psi Omega
Student American Dental Association



PAUL F. ZWERNER II
Delta Sigma Delta
Student American Dental Association

Random Shots - - - - Class of 1968



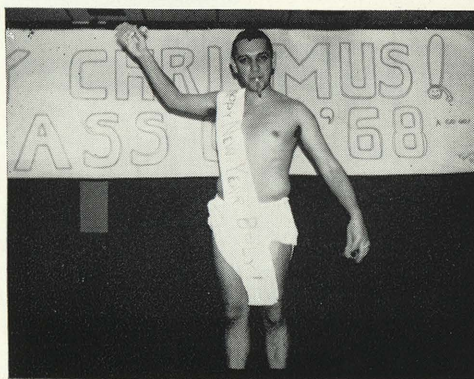
Well boy, you got a pretty nice setup there, but you sure goofed up your card.



Schreck, Bratton and Eversole entertain at Christamore House.



Vincent, Santa Claus, and Boyd give Novak a booby prize.



Pesut brings in the New Year!

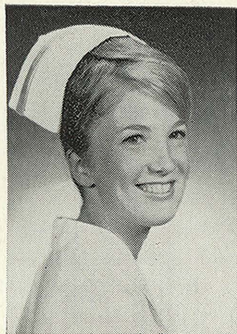
Indianapolis Dental Hygiene Graduating Class of 1968

The Dental Hygiene program beginning in 1952 at Indiana University's Dental School has increased its number of graduating Dental Hygiene students from seven to thirty. Also a great increase can be seen in the number of graduating Dental Hygienists who will be going a fourth year to acquire their degree in Public Health or one of the other related sciences. Presently, the figure stands at more than 40% of the students of the 1968 graduating class of Indiana University who will be continuing their education.

The varied activities that the Dental Hygiene students have participated together in as a group over the past two years encompass a wide range of interests. These interests have taken them through being 'Big Sisters' to the incoming class of Dental Hygiene students; having Christmas parties both for themselves and underprivileged children; caroling sick bed patients at General Hospital; and showing different interested groups and parents the facilities of the Dental School with special emphasis on what the Dental Hygiene program entails.

Following are the pictures of all the graduating students of Indianapolis in Dental Hygiene who have completed the three year program that allows them to get their Certificate in Dental Hygiene from the Indiana University School of Dental Hygiene.

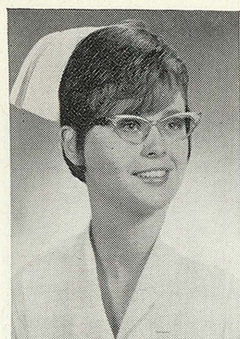
Terry Cobb



SANDRA SUE BEHRMAN
Junior American Dental Hygienist Association



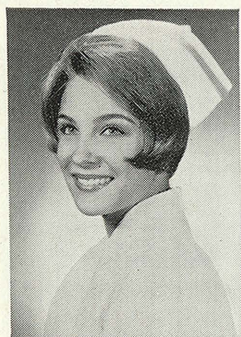
DORIS ANN BURGER
Junior American Dental Hygienist Association



JEWELL KATHLEEN BEYERS
Junior American Dental Hygienist Association
Will get B.S. in Public Health



NANCY SUE CLINE
Junior American Dental Hygienist Association



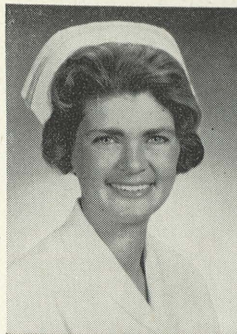
LISA GRETCHEN BLUM
Junior American Dental Hygienist Association



TERRY LYNN COBB
Junior American Dental Hygienist Association
Will get B.S. in Public Health



SHARON LYNNE DAVIS
Junior American Dental Hygienist Association



MARILYN FARMER
Junior American Dental Hygienist Association



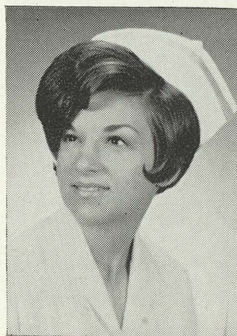
DARLENE GAY DUNCAN
Junior American Dental Hygienist Association



CHRISTINE L. FISHER
Junior American Dental Hygienist Association
Union Board Representative
Allied Health Representative
Will get B.S. in Public Health



CARL HEDDON EVERSMAN
Junior American Dental Hygienist Association



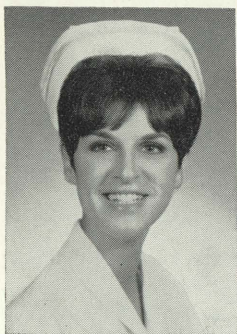
CAROL ELAINE GARRIOTT
Junior American Dental Hygienist Association
Secretary-Treasurer of Class



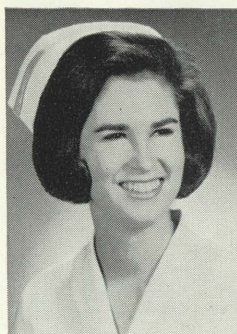
NANCY JOAN GORA
Junior American Dental Hygienist Association



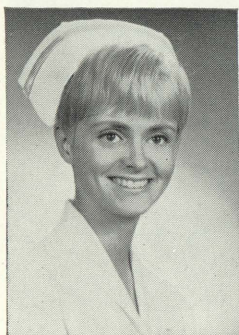
LOIS JANE HORTON
Junior American Dental Hygienist Association
Will get B.S. in Public Health



CINDRA LOU HARE
Junior American Dental Hygienist Association



BARBARA MARIE JOHNSON
Junior American Dental Hygienist Association
President of Junior American Dental Hygienist Association



CAROL JOAN HAWKINS
Junior American Dental Hygienist Association



JACQUELINE ANN KUHN
Junior American Dental Hygienist Association
Student Council Representative



DIANA YVONNE LIEVENSE
Junior American Dental Hygienist Association
Will get B.S. in Public Health



JANE ANN RUSSELL
Junior American Dental Hygienist Association



SANDRA LEE RICE
Junior American Dental Hygienist Association
Will get B.A. in Biology



SUSAN LYNN SCHREY
Junior American Dental Hygienist Association
Treasurer of Junior American Dental Hygienist
Association



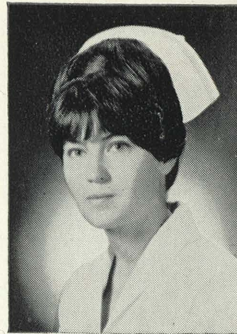
DIANE KAY ROHLFING
Junior American Dental Hygienist Association
Vice-President of Class
Will get B.S. in Public Health



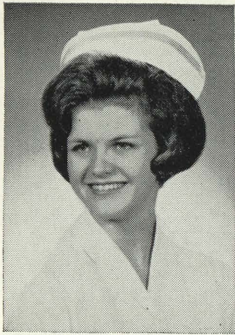
CAROL JEANIE SCOTT
Junior American Dental Hygienist Association
Program Chairman



KATHRYN JANE STUTE
Junior American Dental Hygienist Association
Class President
Will get B.S. in Public Health



PATRICIA ORTMAN VAN DORN
Junior American Dental Hygienist Association
Secretary of Junior American Dental Hygienist
Association
Will get B.S. in Public Health



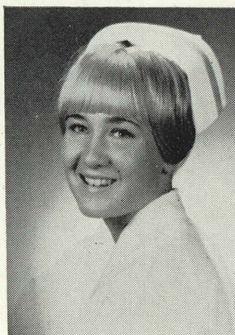
PAMELA PHILLOPS THIESING
Junior American Dental Hygienist Association
Will get B.S. in Public Health



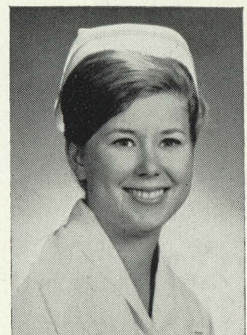
CAROL HEDZIE WILLIAMS
Junior American Dental Hygienist Association
Will get B.S. in Public Health



MARSHA KAY THUNANDER
Junior American Dental
Hygienist Association



LINDA KAY WILSON
Junior American Dental
Hygienist Association



JANET LOUISE WULFF
Junior American Dental
Hygienist Association

I.U.M.C. DECADE

(Continued from page 4)

throughout the state forming the network for health education. In this building will be housed a new Medical Center library with nearby computer facilities for making available information on almost instantaneous retrieval at many remote locations. In addition, in this building will be a closed circuit television headquarters, including studio, with peripheral connections to classrooms and laboratories on the Indianapolis campus and external connections not only to the other state schools but to an ever increasing number of hospitals, clinics and centers throughout the state serving as foci for health practitioners in their areas.

We are quite serious in our belief that much of the health education of the future will be through an integrated statewide program rather than being concentrated on this campus. Accordingly, beyond the immediate program outlined above, we do not now anticipate any significant expansion of students or construction needs on this campus. Likewise, while we are giving much thought to improvement in the continuation and refresher portion of education, we feel that this will be sent to the communities where the practitioners live rather than continuing the forms of the past which require assembly, often at quite remote locations. There is no denying the tremendous impact of the new and modern media — television and computer — and their influence on health education of the future. Our role as a medical center will be to coordinate and supply much of the pipeline material, but to an increasing extent teaching and learning will take place in many settings throughout our state.

We are clearly on the threshold of an exciting new era in health education. Currently, we are engrossed in overcoming the deficits of long standing on this campus which will allow us to assume a new role of service to all of the citizens of our state.

Once the proper strengths of faculty and facilities are provided for this campus—to do the job well for the students we now have, not an ever expanding student body—we will be in position to assume our proper role in a network of educational opportunities which will keep Indiana in her rightful position of leadership in educational opportunities.

FOOD AND DENTURES

(Continued from page 6)

moderation, if not restricted by the physician.

For maximum taste sensation, use sharply contrasting flavors in combination, like sweet and sour sauce on meat balls. Use food of distinctive flavor to contrast with mild flavored foods, like cheese with macaroni.

Since an adequate protein diet is required for maximum healing and good nutrition, fish is an excellent food for the denture patient. Fish is a high protein, high mineral food which is very tender and easy to handle because it has no connective tissue.

The cardinal points to remember in fish cookery for the denture wearer are:

1. Bake fish fillets at low oven temperature.
2. Cook no longer than 20 to 25 minutes.
3. Fish is done when it turns milky white and flakes easily with a fork.
4. Serve fish with lemon butter or any condensed soup used as a sauce, to keep the fish moist.

Dry fish is unpalatable and difficult for the denture wearer to handle.

In serving the person with dentures, remember that a choice of steak or prime ribs is not necessarily a treat because of the reduced chewing pressure. Hamburger, moist meat loaf or casserole dishes are often more appreciated. To tenderize a tough piece of meat, cook with acid such as tomato juice or lemon, which not only softens the connective tissue, but improves the flavor as well. If cut in small pieces

and chewed slowly, meat prepared in this way can be handled with a minimum of difficulty.

Further food suggestions for denture wearers are: chopped liver with finely-cut celery, salmon-loaf, tuna-noodle casserole, and baked chicken basted with orange-pineapple juice.

The denture wearer often has difficulty with celery stalks or large pieces of raw carrot. For salads, use gelatin as a vehicle to serve chopped or shredded vegetables. Tuna-apple salad is an inexpensive, tasty and easy-to-chew salad which can also be used as a main course.

Although many have mastered the technique of eating corn-on-the-cob, or biting into a whole, crisp apple, the majority should not be discouraged if these foods present the problem of dislodging the denture. Even mashed potatoes, though soft, may be a problem by clinging to the roof of the upper denture.

Reprinted from the Hartford Courant: Tuesday, December 5, 1967



President Stahr congratulates Mrs. Harvey following the presentation of her Honorary Membership in the Alumni Association.

STARKEY'S COLUMN

(Continued from page 27)

out the busy Summer period seems an appropriate comment. I hope I've dispelled any idea that Summer is a leisurely time for the faculty and students. The school has the responsibility for providing the learning opportunity for students to prepare themselves to provide modern dental service to the people of this state. Without this Institution, can you conceive what would become of the profession in this state? Our faculty is a busy, dedicated one. Stop in and see. . . . Fall, Winter, Spring, or Summer.

RECORDER'S NOTES

(Continued from page 36)

Dr. Lee R. Newberger
Deceased

Dr. Ralph J. Overstreet
Address Unknown

Dr. George L. Oyler
201 North Main
Nappanee, Indiana

Dr. John B. Parr
Address Unknown

Dr. Claude Ernest Pierce
5-6 French Lick Street, Bnk. Bldg.
French Lick, Indiana

Dr. Alexander Davidson Pow, Jr.
Deceased

Dr. J. E. Pulley
5320 Lawrence Avenue
Chicago 30, Illinois

Dr. Samuel James Purviance
Deceased

Dr. Lynn Goodwin Reed
Reed Bldg.
Fremont, Indiana

Dr. Fred Wayne Richards
Deceased 12-31-39

Dr. S. Paul Richards
No Trace

Dr. Wade Dowden Rogers
Deceased

Dr. Stark Orban Sanders
Address Unknown

Dr. Harry August Schiess
6501 Woodland Dr.
Gary, Indiana

Dr. Harry M. Schneider
Deceased

Dr. Russell F. Shafer
1100-27th Street, N.E.
Cedar Rapids, Iowa

Dr. Alphonso Peter Shipman
1118 Diamond Ave.
South Bend, Indiana

Dr. Stewart B. Smith
116 W. Market Street
Washington, Court House, Ohio

Dr. Thomas Charles Smiley
214 N. E. 10th Street
Washington, Indiana

Dr. James C. Stewart
Deceased

Dr. Ellis Y. Tagawa
No Trace

Dr. Jesse Vern Tow
Deceased

Dr. Howard F. Thomas
Deceased

Dr. Ralph Smith Turner
111 N. Columbia Street
Union City, Indiana

Dr. Clinton Parmer Walker
Deceased

Dr. Louie E. Wampler
Address Unknown

Dr. B. J. Warczak
Deceased

Dr. James Carey Weatherholt
373 S. Monroe
San Francisco, California

Dr. Emil Leonard Welsch
Wolcott, Indiana

Dr. Lee Edwin Wherry
Deceased

Dr. Douglas Hunter White
Address Unknown

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THE BOOKSHELF

(Continued from page 24)

PAIN THRESHOLD OF HUMAN ANTERIOR TEETH TO PRESSURE STIMULATION

James Morris Reynolds, 1967

The purpose of this thesis was to design a method of measuring the pain threshold of human teeth and to study the relationship of variables such as age and sex with pain threshold of teeth.

A procedure was developed to measure the pain threshold to mechanical stimulation applied as a force with a push gauge.

An analysis of the data collected indicates that the method employed is reliable for the measurement of pain threshold. Adults were found to have a higher pain threshold than adolescents, males have a higher pain threshold than females and the pain threshold level of adolescent maxillary central incisors is higher than maxillary lateral incisors.

Additionally, it is obvious that the many variables which effect pain threshold are easier to control when tests are performed on the same day than when performed on different days.

Further studies in this area are needed, particularly studies of patients undergoing orthodontic treatment. Only in this way will we be able to develop exact procedures which will enable us to adequately control or entirely prevent discomfort associated with mechanical movement of teeth.

HISTOPATHOLOGIC RESPONSE OF THE HUMAN DENTAL PULP TO RESTORATIVE RESINS

Carlos L. Suarez, 1967

A controlled clinical study was performed to determine the histologic pulp response to different restorative resins. Class V cavities were prepared in 137 non-carious human teeth previously condemned for periodontal or prosthetic reasons. The cavities were made deeper than would be normally done in a clinical practice. Zinc oxide-eugenol was used as control and the experimental categories included: Bonfil, Caulk's experimental resin (Dakor), Addent liner + Addent, and Hydrex + Addent liner + Addent. The teeth were extracted between one and 51 days and were routinely processed for histopathologic evaluation.

The zinc oxide-eugenol controls presented a minimal pulp response, indicating the cavity preparation was not traumatic. Bonfil proved

to be more irritating than Dakor. In the Addent categories there were too few teeth to warrant definite conclusions, but the trends indicated the response to be similar to the other resins studied. The benefit of using a Hydrex liner in deep cavities was not fully ascertained under the conditions of this study. However, there were instances in which it proved to be of value. The possible presence of a microscopic exposure in such deep cavities also merits that a Hydrex liner still be used under Addent. The protective effects of the thickness of remaining dentin and the presence of preoperative irregular dentin were reaffirmed in this study.

EFFECTS OF DILANTIN ON THE REPAIR OF GINGIVAL WOUNDS

William P. Swann, 1966

The purpose of this study was to investigate the effects of the systemic administration and topical application of DILANTIN on the repair of gingival wounds in humans.

Over a span of nineteen months, forty-nine subjects entered this controlled, double-blind study. All patients demonstrated similar clinical and radiographic evidence of early periodontitis, and all were indicated for routine gingival surgery.

The patients were sequentially assigned a code number as they entered the trial and by virtue of this code, were included in 1 of 4 treatment groups. Oral medication was initiated 1 week prior to the surgical appointment. The surgical procedure was recorded photographically, then the area protected with a coded post-operative dressing. At 1 and 2 weeks post-operatively, each patient was again photographed. Clinical impressions of wound healing and granulation tissue formation and degree of post-operative comfort were recorded. Cytologic smears were made of cells harvested from the healing wound.

Following completion of the study, all data were submitted to Parke, Davis & Company for statistical analysis. Twenty patients received oral DILANTIN systemically, twenty-one patients were treated either with a placebo or DILANTIN incorporated into the surgical dressing, and 8 patients served as controls. Clinical evaluation did not reveal a significant difference in the 4 treatment groups. Photographic evaluation of wound healing and granulation tissue formation correlated very well with clinical impression. Cytologic technique was insufficiently developed to obtain results in all cases, however, suitable smears from the DILANTIN groups demonstrated cells which

were larger and brighter staining than those found on smears from the placebo group.

Overall statistical analyses were inconclusive due to sample sizes.

A CRITICAL CLINICAL AND TELEVISION RADIOGRAPHIC EVALUATION OF INDIRECT PULP CAPPING

Lionel Traubman, 1967

The purpose of this study was to quantitatively measure the rate and amount of calcification and secondary dentin deposition below deep carious lesions of otherwise radiographically and clinically sound teeth treated by calcium hydroxide—methyl cellulose indirect pulp capping. Standardized, reproducible serial radiographs of 50 treated young posterior teeth were exposed preoperatively at one, three, six, nine and, in some cases, 12 months. At the final appointment, the silver amalgam restorations were removed and all residual caries was excavated. A barium sulphate radiographic indicator paste identified the pulpal floor level at the first and last appointments. Ninety per cent of the teeth studied remained asymptomatic and were not pulpally exposed. Television density and linear measurement instrumentation was utilized to register calcification changes, pulpal floor thickness, and secondary dentin deposition. Following treatment, increased secondary dentin deposition and calcification activity, or sclerosis, was initiated. Higher levels of calcification activity were related to increased thickness of pulpal floors, but this dimension had little influence on the total amount of reparative dentin formed. The rate of reparative dentin formation was highest during the first month and steadily diminished with time. Calcification activity experienced a cyclical change, or “exchange,” with an initial activity peak. This was followed by an apparent, but temporary mobilization of mineral content out of the affected dentin. With time, a steady rise in calcification level was observed. Measurement of longitudinal records showed that apparent pulp exposures can be avoided by allowing significant amounts of protective secondary dentin to form, before complete caries excavation.

THE EFFECT OF SALIVARIADENECTOMY UPON CARBOHYDRATE ABSORPTION AND UTILIZATION

Ned B. Van Roekel, 1967

Numerous articles have been published concerning possible endocrine functions of the salivary glands in carbohydrate metabolism and their interrelationship with other endocrine organs. In order to gain further information about endocrinologic activity of the salivary glands a series of experiments was designed to investigate the effect of salivariadenectomy upon carbohydrate absorption and utilization. The absorption and utilization of mono, di, and polysaccharides as well as phosphorus and calcium was studied. Blood and tissue samples were analyzed in two ways using a spectrophotometric analytical method and radiotracer technique. Salivariadenectomized rats were found to have significantly lower blood glucose levels when the disaccharide sucrose was used. No significant differences were observed in the absorption and utilization of calcium and phosphorus.

PULP REACTION TO ANORGANIC BOVINE DENTIN

Martin J. Walshe, 1967

A study was made to determine if heterogeneous dentin, devoid of its antigenic potential, would stimulate reparative dentinogenesis in the dental pulp. The teeth of two monkeys were capped with bovine dentin mixed with methyl cellulose and histologic analysis was made at 21 and 42 days post-operatively. At the 21-day interval, seven of the 17 teeth capped with the experimental material were successfully repaired with atubular dentin. The remaining 10 teeth showed varying degrees of inflammation and repair. The teeth of the second animal (42 days) were stained for bacteria as an additional diagnostic tool. A direct correlation was found between delayed healing and inflammation and presence of bacteria in the pulp. No bacteria were found in pulps which were successfully repaired. It was concluded that anorganic bovine dentin seemed to induce calcific repair of the dental pulp in the absence of bacteria. Autogenous dentin chips appeared to have the same effect. The importance of including a bacteriologic stain in the histologic analysis of pulp capping studies was demonstrated.



Dr. Joseph F. Volker, Vice-President for Birmingham Affairs and Director of the Medical Center, University of Alabama in Birmingham, was awarded the honorary degree of Doctor of Science in recognition of his contributions to dentistry by the University of Medical Sciences of Thailand. The degree was conferred by King Phumphon at the University's commencement exercises in Bangkok on April 6.

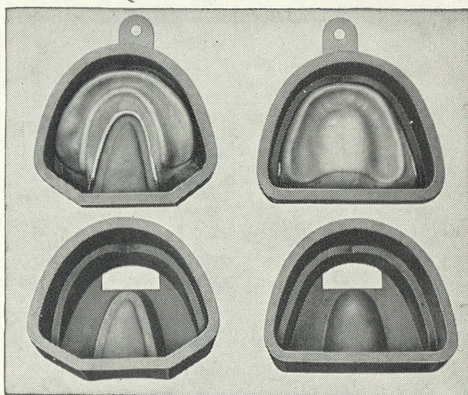
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