

Alumni Bulletin

INDIANA UNIVERSITY
SCHOOL OF DENTISTRY

AUGUST, 1958

INDIANAPOLIS, INDIANA

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

Dental School Receives Many Grants

During the past year, various departments have been the recipients of research grants from numerous agencies. Although the following list is not complete, it summarizes the major projects.

ORTHODONTIA

U.S. Public Health Service—"Histologic Changes Associated With Controlled Mechanical Stresses On The Maxillary Suture of the Rat"—\$4,226. The experiments were designed to produce controlled mechanical stress on the maxillary suture of the rat, utilizing the central incisors as anchorage. Suture expansion was studied considering 1) force, 2) time, and 3) endocrine balance as variables. (This study in conjunction with the Oral Pathology Department)

ORAL HISTOLOGY

U.S. Public Health Service—"X-ray Micrographic Studies Of Dentin Calcification"—\$7,633. This is a histologic study of undecalcified bone and dentin using Xrays instead of light photomicrographs. Since x-radiation penetrates thin undecalcified dentin sections proportional to the degree of calcification, normal and abnormal calcification can be measured. It is possible with this method to measure degree of dentin sclerosis brought about by attrition and caries.

ORAL DIAGNOSIS

U.S. Public Health Service—"Systemic Factors In Hamster Periodontal Disease"—\$5,359. For eleven years we have been studying the systemic factors which may or may not predispose to periodontal disease. Current research is concerned with the study of deficiencies of gonadal hormones, thyroid hormones and dietary calcium.

U.S. Public Health Service—"Rat Tissue Reaction To Dental Materials Implants"—\$4,505. This study is aimed toward the development of a simple, short, uniform screening test of the irritational qualities of large numbers of dental materials. Side issues of this study are concerned with factors promoting osteogenesis and the induction of tumors.

CROWN & BRIDGE

U.S. Public Health Service—"Esthetics Of The Porcelain Veneered Crown"—\$4,000. A study of the various variables which influence the esthetics and color stability of the porcelain veneer crown.

ORAL PATHOLOGY

U.S. Public Health Service—"Physiopathology And Histopathology Of The Salivary Glands"—\$16,905. This grant is the first year of a five year program grant totaling \$109,250. Its purpose is to develop a research program in the field of salivary gland physiopathology and histopathology.

Indiana Cancer Society—"A Fundamental Investigation Of Experimental Tumors Of The Salivary Glands"—\$6,480. This study has dealt with the production of experimental salivary gland tumors in animals with particular emphasis on their histogenesis.

U.S. Public Health Service—"Submaxillary Gland Changes Following Blood Vessel Ligation And Their Relation To Carcinogenesis" (with Doctor S. M. Standish)—\$4,744. This study was for the purpose of investigating the effects of salivary gland blood vessel ligation and the relations of these effects to carcinogenesis.

DENTAL MATERIALS

U.S. Public Health Service—"Dimensional Stability Of Rubber Base And Hydrocolloid Impression Materials"—\$6,842. A study of dimensional stability and other factors which influence the accuracy of these materials.

U.S. Public Health Service—"Adaptation Of Restorative Materials By The Use Of Radio-Isotopes—In Vivo"—\$7,072. An in vivo study with dogs and humans on the adaptation of various restorative materials and technics—gold inlay, foil, amalgam, resin, silicate, zinc oxide and eugenol.

Research and Development Board, U.S. Army—"Adaptation Of Restorative Materials By The Use Of Radio-Isotopes—In Vitro"—\$8,850. Similar to above project except to be in vitro and data will be used to evaluate the effectiveness of the laboratory tests.

Research and Development Board, U.S. Army—"Studies On Solubility Of Certain Dental Materials"—\$9,168. Effect of dilute acids on solubility of various dental cements and influence of these, and experimental materials, on the solubility of enamel and dentin.

U.S. Air Force—"A Clinical Investigation On The Strength Requirements In The Amalgam Restoration" — \$7,904. Clinical study with amalgam restorations placed with standardized technics to determine the influence of mercury and cavity preparation on the incidence of fracture and corrosion.

L. D. Caulk Co.—"Development Of Experimental Restorative Materials" — \$1,000. Effect of certain fluoride-containing dental cements and resins on enamel and dentin solubility.

Pepsodent Division, Lever Bros., Co.—"Dentifrices"—\$3,000. Effect of certain variables on the luster of enamel as related to dentifrice composition.

With the Prosthetic Department, Clark-Cleveland Co.—"Denture Stabilizing Materials"—\$6,300. A clinical evaluation of the effectiveness of certain experimental materials in stabilizing the denture base.

BIOCHEMISTRY

Proctor and Gamble — \$60,000. The Proctor and Gamble Grant is divided into two components. One deals with clinical research and the other with basic research. The clinical research involves the evaluation of fluoride dentifrices and the topical application of new fluoride compounds. The basic research involves studies designed to understand the mechanics of action of fluorides with enamel.

Indiana State Board of Health—\$2,400. The Indiana State Board of Health has supported work in biochemistry since 1945. These studies are designed to investigate the metabolic fate of fluoride ingested at the levels used to fortify communal water supplies. Such factors as the nature of calcifying ions, the effect of diabetes and kidney disorders and the retention of fluoride in the skeleton and soft tissues are being investigated.

U.S. Public Health Training Grant—\$23,000. The U.S. Public Health Service has given Indiana University this grant in order to develop a training program for students interested in dental education and research in biochemistry.

U.S. Public Health Service—\$5,000. This grant supports research on the relationship between fluoride metabolism and vitamin C activity. Numerous studies have suggested that vitamin C increases the retention of fluoride in the body.

Marion Laboratories—\$3,200. This grant supports research on the metabolism of oyster shell in regard to calcium, phosphorus and fluoride metabolism.

U.S. Army—\$8,000. A joint project with Dr. Shafer is supported by the Navy in order to investigate the relationship between the endocrine system and dental caries.

A Pilot Study of the Effects of Calcium Hydroxide and Sodium Fluoride Implants in Normal and Scorbatic Guinea Pigs*

By Donald Traicoff, D.D.S.

* This paper, which was written by a member of the senior class in partial fulfillment of his graduation requirement, won second place in the senior essay contest.

In dentistry, probably more so than in the practice of any other phase of the medical sciences, foreign materials are placed in very intimate contact with human tissues for long periods of time. It is important therefore that the dental practitioners learn more about the ways in which human tissues react to these foreign bodies. This report is concerned with only two materials, calcium hydroxide and sodium fluoride. Since this was a pilot study, a small number of animals was used. The guinea pig was selected since its dependence upon vitamin C would allow the observance of connective tissue response to these implants under normal and scorbutic conditions. This paper will also try to show if there is any osteogenic effect produced by the implanted materials in this species, as has been reported with calcium hydroxide by other investigators, using rats.¹ It was also of interest to learn if any such osteogenic effect would be influenced by the scorbutic state. And finally, in view of the pathological calcification cited below associated with systemic fluorides, it was felt that investigation of the local effect of fluoride would be warranted.

Calcium hydroxide has been used for quite some time as a pulp capping agent in dentistry. It is well established that in such successful pulp cappings a dentinal bridge is formed beneath the calcium hydroxide.²⁻³ Therefore, it is not unreasonable to assume that this dentinogenic response is in some way related to the presence of the calcium hydroxide. Heterotopic bone formation has been demonstrated in the tissues around calcium hy-

droxide when it was implanted subcutaneously in the rat, and the calcium hydroxide exhibited a marked fibroplastic reaction.¹

Varying connective tissue responses to implants have been reported with many different materials. Plastics have shown definite carcinogenic properties in the rat when implanted for many months.⁴ These same authors also report heterotopic calcification. Some dental materials, e.g. nickel-gallium alloy and pure nickel, have induced malignant neoplasia in the rat when implanted for long periods of time.

Several reports of ossifying spondylitis produced by high concentrations of fluoride are on record.⁶ Cicardo et al, report that the fixation of calcium⁴⁵ was substantially increased in the rat following administration of sodium fluoride intraperitoneally.⁷ It has been reported that when the fluoride in urinary calculi was high the calcium content was also high.⁸

Materials and Methods

Twelve male guinea pigs were used, weighing from 250 to 300 grams apiece. They were divided into two groups of six each. Both groups were fed standard rabbit pellets, but one group was given 10 mg. of ascorbic acid intraperitoneally each day. After the scorbutic group had been maintained this way for ten days, both groups were implanted. The animals were weighed daily.

The pellets used for implantation weighed approximately 70 mg. each and were cylindrical in shape. Because of the fragility of the sodium fluoride pellets it was necessary to use methyl cellulose as a binder. The calcium hydroxide pellets were made using water.

The animals were anesthetized with ether and their backs shaved over the

sacral and scapular regions. A depilatory (Nair) was used to remove any stubble. Incisions were made in each of these areas, and the skin was undermined at least 1½ cm. from the incision. At this point, the pellets were placed. One black silk suture was used to close each incision. Following implantation, the animals were sacrificed at intervals of 3, 8 and 35 days. Histologic sections were made through each implant and the surrounding tissues, and these were stained with hematoxylin and eosin, and Von Kossa's silver stain, which helps to identify calcification.

Observations

Within 20 minutes after the implantations a marked change was observed at the NaF implant sites. An ecchymotic area (approximately 4-5 cm. in diameter) appeared, and the coagulation time of the blood in the area was increased tremendously. In one case, it was an hour before the blood began to clot. Figures 1 and 2 show these ecchymotic areas in the scapular regions of the animals three days after implantation.

Microscopic Tissue Reactions to Sodium Fluoride

3 day specimens—There was extensive necrosis of the overlying epithelium and

connective tissue, characterized by a diffuse eosin staining. Cell outlines were lost and basophilic nuclei were not apparent.

8 day specimens—Both normal and scorbutic specimens showed acute abscess formation, and destruction of the panniculus carnosus muscle. The normal specimens tended to show more fibroplasia and neutrophil infiltration.

20 day specimens—This specimen (scorbutic) was obtained at necropsy and showed essentially the same conditions as were present in the 8 day scorbutic animal with the addition of the presence of adipose tissue infiltrating the fibrous connective tissue.

35 day specimens—In the normal specimen, the lesion was well healed and there was an extensive fibrous connective tissue scar present. The panniculus carnosus muscle was absent in the region of the scar. The scorbutic specimen still showed ulceration and abscess formation.

Microscopic Tissue Reactions to Calcium Hydroxide

3 day specimens—Both normal and scorbutic specimens showed necrosis im-

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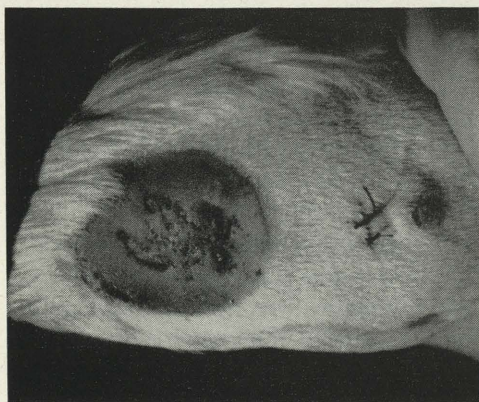


Figure 1

Scorbutic guinea pig 3 days after implantations. NaF site at right and $\text{Ca}(\text{OH})_2$ pellet under skin can be seen at left.



Figure 2

Normal guinea pig 3 days after implantations. NaF site at right and $\text{Ca}(\text{OH})_2$ pellet under skin can be seen at left. Little difference in the early reactions in the normal and scorbutic animals was seen.

mediately around the pellets and the panniculus carnosus muscle exhibited small areas of calcification. In the normal specimen there seemed to be an attempt at fibrous encapsulation of the pellet. The inflammatory reaction was remarkably reduced in comparison to the NaF tissues.

8 day specimens—Both specimens showed calcification of some of the cells of the muscle layer, and fibrosis and necrosis in this layer. Calcification also appeared to have affected some of the fibers in the connective tissue layer. The scorbutic specimen still showed considerable acute inflammation.

35 day specimens—The muscle layer was absent in both specimens. In the normal specimen the remnants of the muscle layer cells were calcified and in other areas a layer of fibrosis was substituted for the muscle layer. There was calcification of some of the bundles of fibrous connective tissue. There were also isolated calcified spicules. The scorbutic specimens showed ulceration over the pellets and excessive fibroplasia. There was relatively less calcification in the scorbutic animals than in the normal animals.

By the end of the experiment the surviving normal guinea pig had increased in weight considerably. The surviving scorbutic guinea pigs were either static or losing weight.

Four of the original twelve guinea pigs died during the experiment (2 normal and 2 scorbutic). No apparent cause of death was noted.

It is interesting to note that even though the amount of NaF implant in the animals was approximately three times the lethal human dose (proportionately) the animals seemed to show no untoward systemic effects from the chemical. This might have been due to the fact that it destroyed the surrounding tissue so rapidly

it actually walled itself off from the circulation thereby preventing rapid absorption.

The increased coagulation time of the blood at the NaF implant site can be explained by the fact that NaF is used as an anticoagulant for blood for laboratory analysis.⁹

Summary

This experiment was designed as a pilot study to observe the histologic reaction of guinea pig connective tissue to implanted pellets of calcium hydroxide and sodium fluoride. Normal and scorbutic guinea pigs were used, and the implant periods were 3, 8, 20 and 35 days.

Sodium fluoride exhibited powerful local toxic properties. The tissue reaction resembled that of the healing of a burn. In the scorbutic pigs these lesions healed slower than in the normal pigs and acute inflammation persisted for a longer period of time.

Calcium hydroxide in the early stages of implantation showed some local necrosis with calcification of some of the necrotized cells. After a longer period, calcification was noted in the muscle layer and connective tissue layer. There were also spicules of calcified material. These spicules did not appear in the scorbutic animals.

Conclusions

1) Calcium hydroxide does tend to promote calcification of cells and the formation of calcified spicules in the tissues around pellets implanted in the normal guinea pig.

2) Calcification of cells occurred in the scorbutic animals, but the formation of calcified spicules was not observed.

3) Pure sodium fluoride is too toxic to tissues to be studied directly by implantation for observation of any possible

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Report of The President, I.U.S.D. Alumni Association*

By Harry J. Healey, D.D.S.

Our alumni association enjoys a very good reputation within the family of alumni groups of the other schools of the university. This is due in the main to the following factors: 1.) Interest of the dental alumni in membership and in the activities of the alumni association; 2.) Regular conferences or meetings for the membership—particularly the annual fall conference in Bloomington and the mid-winter luncheon meeting in Chicago; 3.) An effective liaison relationship with the school of dentistry in the publication of its Alumni Bulletin; 4.) A functioning student loan fund for the assistance of worthy and needy dental students; 5.) Participation in student recruitment activities through its committee of the same name; 6.) Sponsoring of a booth as part of the exhibits program for the May meeting of the I.S.D.A.; and 7.) other similar activities.

Concerning the alumni association's booth in the exhibit area of this year's May meeting, I call your attention to its congratulatory nature and to the enlarged typewritten letter which is part of the display and which reads as follows:

Dear I.S.D.A. Members,

When the State Dental Association was established in 1858, Indiana University had been functioning since 1828. The first dental school in the State came into existence in 1879, and the teaching of dentistry became associated with the university in 1925.

The Indiana University School of Dentistry Alumni Association expresses its gratitude and appreciation to the Indiana State Dental Association for its effective cooperation with den-

tal education during the past 100 years.

Cordially yours,
Harry J. Healey, D.D.S.
President

This expression of felicitation and appreciation to the I.S.D.A. is indeed sincere.

The program for the annual fall conference of the school of dentistry alumni association is now being arranged, and the dates for the same are Friday and Saturday, October 3 and 4. This is always a very valued and interesting meeting for those who attend. It is designed especially for the enjoyment of *both* the dentist and his wife. Separate programs are arranged for the wives, dental programs of current interest to the dentist are presented and combined sessions for both the wives and dentists which are always unusually interesting and enjoyable are provided. The beautiful fall weather which always characterizes the week-end of this meeting provides an opportunity for relaxation and rest either on the campus or at one of the nearby state parks when the meeting is completed. Permit me to urge of you to attend the fall meeting of the alumni association this year with your wife and perhaps a group of your dental friends.

Upon the conclusion of this report, it will be my distinct personal privilege as President of the Alumni Association to present to the President M. K. Hine and President-elect E. A. W. Montgomery of the I.S.D.A. appropriately engraved gavels symbolic of their offices. By action of the Board of Directors of the Alumni Association, these gavels will express the appreciation of the Alumni Association for the past efforts of those officers in behalf of organized dentistry and also its real confidence in their continued future activities for the advancement of dentistry and the I.S.D.A.

* Presented at centennial meeting of the Indiana State Dental Association, May, 1958.

Dean Hine reports that...

After much detailed planning the contracts for the dental school addition have finally been approved. Thomas A. Berling & Son Construction Company, Indianapolis, was awarded a contract for a bid of \$885,033.00. Construction will be started soon.

The actual cost of the construction was approximately that which was estimated when the detailed plans were circulated to the various contractors in May. However, costs are appreciably higher than estimates prepared eighteen months ago. As a result it is probable that the building will not be completely equipped unless additional funds can be found.

Activities around the dental school will go on spite of the construction of the new wing since it is planned to have the new wing partially completed before a connection to the present building is made. In the meanwhile, we are also busily engaged in moving into the new Basic Science Building on the Medical Center campus. This building now houses the teaching of freshman dental subjects as well as some of the sophomore courses.

A fine class of eighty dental students has been accepted; our classes will begin September 10.

Joining the dental school staff this year are Drs. H. William Gilmore and James M. Moran, Indianapolis, and Richard D. Norman, Greenwood. Drs. George T. Childes, Indianapolis, and William C. Gillig, Decatur, are serving internships in the I. U. hospitals.

Also, Dr. Willard Stamper has agreed to increase his teaching time and serve as superintendent of the clinics. It will be Dr. Stamper's responsibility to coordinate activities in the clinical departments, supervise patient appointments and mechanics of student appointments.

It may be of interest to you to know that the percentage of graduates going into private practice is the highest in recent years and is attributed to the decreased number going into the armed services.

We wish all of our graduates success and happiness, provided they keep us informed of their activities!

M. K. Hine, Dean

Alumni Meeting October 3 and 4

Hold October 3 and 4. These are the dates of the annual meeting of the Indiana University School of Dentistry Alumni Association meeting. Dr. Harry J. Healey, President of the Association, has his committees working on the affair and assures everyone that another outstanding program is being arranged.

The Indiana Unit of the American Society of Dentistry for Children, Dr. E. W. Bryan, President, will again have their annual Fall Meeting starting at 10:00 a.m., Friday, October 3, 1958. A most outstanding speaker, Joseph R. Jarabak, D.D.S., Ph.D., will discuss "Interceptive Orthodontics." Dr. Jarabak is in the private practice of orthodontia in Gary

and is Professor and Chairman, Department of Orthodontics, Loyola University School of Dentistry.

General registration will be held throughout Friday and Saturday morning. The Friday noon luncheon, of course, is always a high point and everyone will welcome hearing from Coach Phil Dickens. A general session of interest to both the dentists and their wives will follow the luncheon.

Saturday morning separate meetings are being planned on dentistry for the dentists and a current topic for the wives.

Remember the dates, October 3 and 4.

*Dr. Charles Howell,
Program Chairman*

Senior Honor Day Awards

The Indiana University School of Dentistry gave special recognition to 18 dental and three dental hygiene students Sunday afternoon, May 8, when the annual Dental Honors Day program was held in the Student Union Building at the I.U. Medical Center.

The program, honoring the 66 dental seniors and the 22 dental hygiene graduates, was in charge of Dean Maynard K. Hine and was attended by the families and friends of the two classes. A reception followed the ceremony.

Top honors were shared by H. William Gilmore, Evansville, and Donald Traicoff, Gary, closely pressed by Jack Boyd, Kokomo; John Turchi, Clinton, class president; and Russell C. Boyd, Huntington, West Virginia, all of whom were elected to Omicron Kappa Upsilon, national dental honor society.

Gilmore also received awards in radiology diagnosis, as having shown the greatest improvement since his freshman year, the American Academy of Gold Foil award, and received a fourrager as a 'graduate with distinction.'

Traicoff's additional honors included second place in the senior essay contest, awards for crown and bridge work and for oral diagnosis, and a fourrager.

Russell Boyd received the Alpha Omega scholarship award, and the Robert A. Botkin Memorial award went to John Turchi.

Ralph E. Beatty, Indianapolis, won the senior essay contest, writing on, "Effect of Dilantin Sodium on the Tensile Strength of Healing Wounds in Rats," and first place in the cancer research essay contest was awarded Robert Mattern, Wabash.

Miss Ann Buche, West Lafayette, received an award for proficiency in dental hygiene and a fourrager as graduating with distinction.

Wives of the dental seniors were presented "P.H.T." certificates by their hus-

bands as recognition of their "pushing husband through" his four years of dental school, and school pins were awarded members of the dental hygiene class.

During the reception following the program, Mrs. Joan Grimes of the Dental Dames Club and Mrs. M. K. Hine of the Dental Faculty Wives Club presided at the tea table.

AWARDS AND RECIPIENTS

Omicron Kappa Upsilon (National dental honor society) memberships—

Jack H. Boyd, Kokomo

Russell C. Boyd, Huntington, West Virginia

H. William Gilmore, Evansville

Leo J. Koenig, Elkhart

Glen O. Sagraves, Terre Haute

Donald Traicoff, Gary

John Turchi, Clinton

David E. Willian, Indianapolis

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

Russell C. Boyd, Huntington, West Virginia

Hamilton Discussion Club award for outstanding work in crown and bridge:

Ralph G. Merkle, Fort Wayne

Senior Essay Contest:

1st—Ralph E. Beatty, Indianapolis

2nd—Donald Traicoff, Gary

3rd—Richard D. Norman, Greenwood

Cancer Essay Contest (U.S. Public Health Service) awards:

1st—Robert Mattern, Wabash

2nd—Robert A. Moon, Hobart

3rd—Thomas S. Kaminski, North Judson

Omicron Kappa Upsilon Radiology Diagnosis Contest:

1st—Ralph G. Merkle, Fort Wayne

2nd—Ralph E. Beatty, Indianapolis

3rd—H. William Gilmore, Evansville

Robert A. Botkin Memorial Award

John Turchi, Clinton

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Dean Hine and the new members of Omicron Kappa Upsilon. Left to right, front row: Dean Hine, William Gilmore, Jack Boyd, Donald Traicoff, Russell Boyd. Back row: Leo Koenig, Glen Sagraves, John Turchi, David Willian.

American College of Dentists, award to student showing greatest improvement since freshman year:

H. William Gilmore, Evansville

Fourragers:

for high distinction—

Jack H. Boyd, Kokomo

Russell C. Boyd, Huntington, West Virginia

Ann Buche, West Lafayette (Dental Hygiene)

for distinction—

H. William Gilmore, Evansville

Leo J. Koenig, Elkhart

Glen O. Sagraves, Terre Haute

Donald Traicoff, Gary

David E. Willian, Indianapolis

John Turchi, Clinton

Carol Guthrie, Elberfield (Dental Hygiene)

American Academy of Oral Roentgenology award:

Ralph G. Merkle, Fort Wayne

Indiana Society of Oral Surgeons, two awards:

for further study in oral surgery—

George T. Childs, Anderson

for best essay on oral surgery—

David E. Willian, Indianapolis

American Academy of Dental Medicine award for proficiency:

John Turchi, Clinton

American Academy of Gold Foil award:

H. William Gilmore, Evansville

American Society for Dentistry for Children, two awards:

Russell C. Boyd, Huntington, West Virginia

Glen O. Sagraves, Terre Haute

American Academy of Periodontology, proficiency award:

Daniel S. Kleehammer, Valparaiso

Indiana State Dental Laboratory Association, awards for complete dentures—

Jack H. Boyd, Kokomo

crown and bridge—

Donald Traicoff, Gary

partial denture—

David E. Willian, Indianapolis

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Library

Mrs. Mabel Walker, Librarian

The following selected new books are available for loan to alumni:

- | | |
|--|---|
| American Foundation | Medical research: a midcentury survey. Boston, Little, Brown, 1955. |
| Association of American Colleges | A guide to graduate study. Frederic W. Ness, editor, Washington, 1957. |
| Bacon, Edgar S. | Your child's teeth: a guide for parents. New York, Dutton, 1957. |
| Barzun, Jacques & Graff, Henry F. | The modern researcher. New York, Harcourt, Brace, 1957. |
| Blank, Harvey & Rake, Geoffrey | Viral and rickettsial diseases of the skin, eye, and mucous membranes of man. Boston, Little, Brown, 1955. |
| Bourne, G. H. & Kidder, George W. | Biochemistry and physiology of nutrition, New York, Academic Press, 1953. |
| Clark, George Lindenberg | Applied X-rays. 4th ed. New York, McGraw-Hill, 1955. |
| DeRopp, Robert S. | Drugs and the mind. New York, St. Martin's Press, 1957. |
| Edwards, Linden Forest | Concise anatomy. 2nd ed. New York, McGraw-Hill, 1956. |
| Ellinger, F. P. | Medical radiation biology. Springfield, Illinois, Thomas, 1957. |
| Fischer, Bercu | Clinical orthodontics; a guide to the sectional method. Philadelphia, Saunders, 1957. |
| Gesell, Arnold L.
Amatruda, Catherine | Developmental diagnosis; normal and abnormal child development, clinical methods and pediatric application. 2nd ed. New York, Hoeber, 1947. |
| Goldman, H. M.
Grollman, Arthur | Periodontia. 4th ed. St. Louis, Mosby, 1957.
Pharmacology and therapeutics. 3rd ed. rev. and enl. Philadelphia, Lea and Febiger, 1958.
Isotope index. Indianapolis, Scientific Equipment Corp., 1956. |
| Krantz, J. C. & Carr, J. C. | The pharmacologic principles of medical practice; a textbook on pharmacology and therapeutics for medical students, physicians, and members of the professions allied to medicine. 4th ed. Baltimore, Williams and Wilkins, 1958. |
| Luce, R. D. & Raiffa H. | Games and decisions: introduction and critical survey. A study of the Behavior Models Project, Bureau of Applied Social Research. Columbia University, New York, Wiley, 1957. |

(Continued on next page)

- Macy, Icie Gertrude
Kelly, Harriet J.
Martin, Hayes Elmer
- Muhler, J. C. et al
- Ockerse, T.
- Oldham, Frances K. et al
- Orban, Balint J.
- Reynolds, Albert K.
Randall, Lowell O.
Selye, Hans
- Shafer, W. G. et al
- Siemens, Hermann Werner
- Singer, C. J. et al
- Wheeler, Russell C.
- Zinsser, Hans et al
- Chemical anthropology. Chicago, University of Chicago Press, 1957.
- Surgery of head and neck tumors. New York, Hoeber-Harper, 1957.
- Introduction to chemistry. Englewood Cliffs, New Jersey, Prentice-Hall, 1957.
- Dental caries, clinical and experimental investigations. Pretoria, Dept. of Health, 1947.
- Essentials of pharmacology. Philadelphia, Lippincott, 1955.
- Oral histology and embryology. St. Louis, Mosby, 1957.
- Morphine and allied drugs. Toronto, University of Toronto Press, 1957.
- The story of the adaptation syndrom told in the form of informal illustrated lectures. Montreal, Acta, 1952.
- A textbook of oral pathology. Philadelphia, Saunders, 1958.
- General diagnosis and therapy of skin diseases. Translated from the German edition by Kurt Wiener. Chicago, University of Chicago Press, 1958.
- A history of technology. Oxford, Clarendon Press, vol. 1, 1954, vol. 2, 1957.
- Tooth form drawing and carving. 2nd ed. Philadelphia, Saunders, 1954.
- Bacteriology. 11th ed. New York, Appleton-Century, Croft, 1957.

Statistics, Acquisitions and Services

It is very gratifying that the Annual Report just completed shows among other advancements a marked increase in circulation for the past year. Regular circulation showed an increase of almost 1000 items over those of last year and overnight reserves more than doubled in number, making a one-third increase in total circulation.

Because of a substantial increase in the book budget, 129 more volumes of books and bound periodicals were added this year than the number usually added. These included sufficient additional volumes of the Index to Dental Literature to complete a duplicate set and replacement of the 1947 Encyclopaedia Britannica with the 1958 edition.

Periodicals as follows are being added to the current subscription list:

AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY
HOSPITALS
PEDIATRICS
PLASTIC AND RECONSTRUCTIVE SURGERY

Current periodicals received total 350 including 47 in foreign languages. Single issues of periodicals added to the shelves this year totaled 2000, double the number added last year.

New periodicals are routed daily to faculty members who request this service. These routings show a triple increase over last year.

Gifts of books and periodicals have been received during the year from the
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Objective of Partial Denture Service*

By John F. Johnston, Chairman, Crown and Bridge and Partial Denture Department

I would like to take this opportunity to discuss the concept of partial denture design and construction as it is being taught now at Indiana University School of Dentistry, what we hope to achieve, and how we hope to achieve it.

The concept is not the product of a professorial imagination. The partial denture staff has used and is currently using it in practice. We believe and we teach the partial denture service can be all that the term implies. It need not be a stop-gap or an interim service just to stall off complete dentures for a short time. It can do more than fill spaces and round out the contour of the face. It can result in comfortable use for long periods of time without destruction of the abutment teeth or their supporting structures and it can do these things without creating a situation which will make the construction and wearing of a complete denture a difficult matter. The approach is biological rather than commercial or merely space-filling.

The concept requires, first of all, an evaluation of the mouth and of the general health of the patient. Ridge areas, supporting structures, abutment teeth, their forms and long axis relationships must be studied both at the chair and on accurately-related and mounted study models.

The understanding and constant use of the surveying instrument is obligatory, after which a preliminary design can be projected. This design, the position and alignment of the abutment teeth, the occlusion and the caries index, will dictate the mouth preparation which must be accomplished to insure stability of the appliance under and without masticating forces, minimal pressures on the abutment teeth during insertion and removal of the

appliance, freedom from torque and forces executed in line with the long axes of the abutments.

Certainly this requires reshaping and covering teeth. In answer to the question—"How do you get patients to sit still for and pay for all of this extra dentistry?"—May I ask you a few questions?

- Do you believe in the preservation of the remaining dentition?
- Do you believe the dentist should prescribe and control the prostheses which are placed in the mouths of the dental public?
- Do you believe your patients can be better served if complete dentures can be avoided?
- Have you suggested mouth preparation and partial denture construction to your patients?

It may be surprising to you how many of them, because of their faith in your professional judgment and integrity, will cooperate in biologically-sound treatment.

Decide in consultation with them what is needed for function, preservation of what remains and prevention of future difficulties. AFTER that decision is made, it is time to discuss payment. The size of the patient's purse should in no way influence your statement of the dental truth. You are a member of one of the health professions, not in the "dental appliance business".

How do we expect to realize our objectives?

First, Indiana University School of Dentistry has a Dean who is convinced of the necessity for the program and who combined removable and fixed partial denture construction in one department, certainly a logical arrangement.

Secondly, the major portion of a qualified teaching staff is now at work. Others
(Continued on page 26)

* Portion of paper read at annual meeting of the Indiana State Dental Association, May, 1958.

GRADUATING CLASS OF 1958



WILLIAM J. ALLMAN



RALPH E. BEATTY



HOWARD BERKOWITZ



JACK H. BOYD



RUSSELL C. BOYD



WILLIAM L. BURGESS



WALTER R. BURNS



DELMAR W. SYERLY



CARDINAL M. CASEY



ROBERT J. CASSINGHAM



GEORGE T. CHILDES



SAL A. T. COPE



WILLIAM L. CROMWELL



WALTER C. DEWITT



JACK L. ENGLEMAN



ROBERT B. ERWIN



ROBERT E. FISHER



ROBERT L. FRAZIER



WILLIAM C. GILLIG



H. WILLIAM GILMORE



WILLIAM R. HART



ROBERT S. HOTT



GUY M. JANSSEN



THOMAS S. KAMINSKI



JOHN W. KENDRICK JR.



PETER C. KRESLING



DANIEL S. KLEEHAMMER



KENNETH O. MILLER
SECRETARY



JOHN L. TURCHI
PRESIDENT



JAMES M. MORAN
VICE PRESIDENT



JERRY H. LEER
TREASURER



LEO J. AOENIG



JACK E. KRACH



EUGENE R. KUZMIC



DONALD M. LECKLITNER



JERRY O. LENTZ



WALTER A. LEUENBERGER

INDIANA UNIVERSITY School of Dentistry 1958



JARL E. MALWIN



ROBERT L. MATTERN



KEITH D. MCAVIT



RALPH G. MERKEL



ROBERT A. MOON



RICHARD D. NORMAN



FRANK E. PATE



DAVID L. PEARSON



ROBERT A. PEROTTI



BYRON K. POINDEXTER



FRANK A. PORTOLESE



JAMES G. PUCCIO



JOHN W. ROHN



JAMES F. RUBLE



GLEN O. SAGRAVES



WILLIAM L. SHAFFER



JOHN S. SLAMKOWSKI



KURT F. STEMPEL



JOHN A. TOMPKINS



DONALD TRAICOFF



JOHN J. UEBELHOER



PAUL F. UEBER



LEWIS J. URSCHER



JAMES C. WALKER



DAVID E. WILLIAM



GEORGE E. WINDER



WILLIAM C. WITHERSPOON



JAIME PEREZ

*For Honor
Baker*

Alumni Notes

Mrs. Cleona Harvey, Recorder

Before giving you the Alumni News, I would like to take this opportunity of thanking all of you for your prompt answers to our many requests and for your increasing interest in your fellow Alumni and your school. I am most anxious to serve you through this column and sincerely appreciate your comments and assistance.

And now for news of the

Class of 1892

We are sorry to announce the death on June 11, 1958, of Dr. A. A. Powell.

Dr. Arthur T. White, 345 Parkway Building, Pasadena, California, writes us about Dr. Powell's death, saying, "so far as I know, I am the only one left of the Class of 1892."

Class of 1903

We have received a change of address (temporary while traveling) for Dr. Roy L. Bodine, 38 Russel Avenue, Fort Monmouth, New Jersey.

Class of 1907

We were happy to hear from Dr. Charles A. Eller, 601 First National Bank Building, Albuquerque, New Mexico, who says,

"I graduated in 1907 and came to Albuquerque and am now finishing my fifty-first year in general practice. This is our golden anniversary and I am to celebrate my fifty years as a member of the New Mexico State Society . . . my home was Bloomington; I only have a few relatives there now . . . my wife died four years ago . . . I send greetings to all 1907 graduates in Indiana and elsewhere."

Class of 1921

We were happy to receive some information about Dr. Ernest H. Besch (see Class of 1952) from Dr. Franz Stumpf. Please write us again, Dr. Stumpf, with some news about yourself!

Class of 1931

Dr. Marvin D. Smith, 504 Broadway, Gary, Indiana, was disappointed to note in the last issue of the Bulletin that his name had been omitted from the class list of 1931. Are our faces red! Our sincere apologies, Dr. Smith. We were pleased to note that you *are* still practicing dentistry, have one son in pre-dental and another a freshman in dentistry.

Class of 1933

Dr. Sidney C. Silbert, 311 Lincoln Romain Avenue, Pompton Lakes, New Jersey, writes, "Dr. Irving Quellman and I wanted to come out to Indiana during the May meeting but he could not get away at this time. He passed the Puerto Rico exam and is now practicing there. He is coming up on May 29 to take the New Jersey State Board—He has only one part to pass—prosthetics. He then will come in with me. We will both be able to take it a little easier. If things go well we will try to make the reunion in October in Bloomington."

Class of 1944

Dr. Max Rothschild, 550 West 156th Street, New York 32, New York, writes, "I have been in private practice for 12 years now. In 1949 I married a girl from Scranton, Pennsylvania. We have two little boys aged one and four and are living just outside New York City, in Yonkers, where we have one of these split-level houses."

(Continued on page 23)

Class and Fraternity Notes

FRESHMAN CLASS

The freshman year for seventy-one dental students is completed and we may look back to our first year of dental school with fond memories, especially since we will be the last dental class to receive their freshman curriculum on the campus at Bloomington.

The completion of the second semester saw the end of a very successful year. We started with seventy-one and finished with seventy-one strong.

Some of our extra-curricular activities during the second semester were our big Spring Dance (one of the highlights of our social life during this semester); our champion softball team; our highly successful bowling and tennis teams. Rushing from this end was well received and enjoyable and thirst-quenching but seriously it ran smoothly with no interference with our studies.

We are looking forward to the beginning of the sophomore year and life in the big city.

May everybody have a safe summer and we will see you all at the I.U.M.C. in September.

Bill Watts

JUNIOR CLASS

This year's junior class is finishing its year with somewhat less pressure than it did last year. Many of the students are planning to remain on campus this summer to take advantage of the summer session in the clinic.

During the past year we have been introduced to some of the newest techniques of dentistry such as: high speed operative techniques, silver plating rubber base impressions, and indirect pinledge technique.

The second semester has been a very busy one for all of us, leaving little time for social activities.

Having heard many members of this year's senior class discuss future plans we are certainly looking forward to next year and all the new experiences it will bring.

H. E. Lyon

SENIOR CLASS

At last we are ready to graduate! In just a short time we will be able to follow our names with the long sought D.D.S. The last

few months have flown by, and requirements have gradually disappeared to the point where we can actually see the end. It seemed this time would never come.

The last semester has been a hectic one, with requirements, speakers, and parties keeping everyone hustling. The dental supply houses have been gracious with their usual senior parties.

In March the class spent the day and evening as guests of the Eli Lilly Company. It is a comfort to know that the dental profession has such a good friend in the drug field.

March was a busy month as the class also enjoyed a dance and then sweat through two days of National Boards Examination.

We have had an unusually impressive and interesting list of speakers this last semester. This list includes such people as Drs. Geller, Waldo, Rothaar, Jetter, Pankey, Draper, Du Mond, and just recently, Miss Archanna Morrison, among other distinguished visitors.

In May we proceeded to attempt to push aside the senior practicals. We hope we all learned something from the confusion and chaos which reigned in the lab during the prosthetics practice run.

Last weekend the class enjoyed another outing at Merritt's Park. Lunch, refreshments, and a thrilling softball game were part of a very pleasant and tiring afternoon. The score of the game was 14-12, 12-14, 19-17, 17-19, 16-15, 15-16 according to whom one asked the score. This day was probably the last social event the class will have. Let's hope we can get together many times after graduation.

Our next obstacle is the state board. While some of us are branching out and going to other states, practically all of us are going to tackle the Indiana Board.

The congratulations and thanks of the class go to Dr. Don Cunningham, whom we have voted Best Instructor. For four years he has patiently taught and fought with us, and because of him, the class need not take a back seat to anyone when partial denture construction is the subject.

Thanks also to the rest of the staff, from the department heads down to the part-time instructors who have all, in one way or another, taught us something. Our gratitude also to the lab technicians, appointment clerks, (Continued on next page)

sterilizing clerks, cashiers, supply clerks, and secretaries who were very patient with us through our school years.

And now it is 'Goodbye' to days in school and "Hello" to the dental profession. We hope that relatives, faculty, and friends will be proud of us, and that we will do nothing to disappoint them.

John Turchi

ALPHA OMEGA

Once again as the summer season rolls around, we can look back on another successful year for the Alpha Gamma chapter of Alpha Omega.

Our Senior Farewell this year was held at the Broadmoore Country Club the weekend of the May meeting. We were honored to have as guests, Dr. and Mrs. Hine, Dr. and Mrs. Spear, and Dr. Alstadt. The affair was held to honor Howard Berkowitz, who is graduating in a few short days.

Besides being presented an Alpha Omega diploma, Howard was awarded the Alpha Omega Junior Scholarship Award for being in the upper one-third of his class.

One of the outstanding events of the evening was a presentation by Dr. Samuel Patterson to Dr. Lewis Spear. Dr. Spear was awarded a plaque for his forty years of meritorious service to the dental profession.

We of Alpha Omega want to wish all of our fellow students and the faculty a happy summer, and we shall see you again in the fall.

Stanley Herman

XI PSI PHI

Theta Chapter of Xi Psi Phi has completed another school year filled with much activity for all.

Our new officers were installed in February for the 1958 spring and fall semesters: Robert Gordon, President; Leroy Kochert, Vice President; Bruce Meyer, Secretary; Thomas Winans, Treasurer; Larry Beachy, Pledge Master; Kessler Truelove, Chapter Editor; Paul Risk, Alumni Editor.

The festivities of Rush Weekend opened with a steak dinner at the Hawthorn Room in Indianapolis. Attending were fifty-one members of the freshman dental class, thirty-five active chapter members and twenty-four alumni supporters. Following dinner a smoker was held at the chapter house with many interesting table clinics presented by fraternity alumni and actives. Saturday evening the freshmen with their wives and dates were entertained with a buffet dinner-dance at the ZIP

House. Under the able hand of Larry Beachy, twenty-three freshmen were pledged to the ZIP fraternity this spring.

Fraternity social events have been numerous throughout the year, with dances each month; outstanding were our Halloween, Xmas, Rush and Senior-Pledge dances.

The wives' group, ZIPETTES, were on hand to give much assistance throughout the year. The Zipettes-sponsored Sweetheart Dance was a real success and their numerous dinners for the fraternity throughout the year were excellent.

A number of speakers were present at our monthly smokers to give us interesting talks and clinics on various phases of dentistry. Partial denture construction, hypnodontics, practice management, and insurance and investments were a few subjects presented.

A buffet supper and open house were well attended on Sunday preceding the State Dental Association meeting and similar events are planned for each year. The actives enjoyed rolling out the carpet to greet the alumni and their wives. Everyone had a good time renewing old friendships and recalling years gone by.

We are happy to welcome Dr. Robert Bogan as our new Deputy Supreme President; he will act as councilor for the active chapter, filling the office held by Dr. Robert Tarplee.

House improvements, along with continued modernization of our laboratory, are planned for the summer months to keep our house a proud meeting place for all ZIPs.

Robert Gordon

SENIOR HONOR DAY AWARDS

(Continued from page 12)

C. V. Mosby award for proficiency:

oral diagnosis—Donald Traicoff, Gary
prosthetics—Jack H. Boyd, Kokomo
orthodontia—Peter Kesling, LaPorte
dental materials—Richard D. Norman,
Greenwood

dental hygiene—Miss Ann Buche, West
Lafayette

Interfraternity Council, scholarship plaque:

1st—Psi Omega

2nd—Xi Psi Phi

Indiana State Dental Association, dental hygienist proficiency award:

Miss Betty Hoehn, South Bend

Sophomore with Outstanding Record in Freshman Year:

Richard Henry, Evansville

Dental Hygiene

A. Rebekah Fisk, Director

The activities for the 1958 graduation started on Sunday, June 7, with the annual Honor's Day program for dental and dental hygiene graduates in the Student Union Building. The hygienists receiving special awards were Ann Buche, the Mosby award for the highest scholastic average for the two years, and Elizabeth Hoehn, the Indiana State Dental Hygienists' Association award for clinical proficiency. Dean Hine presented the cord for graduation with high honor to Ann Buche and the one for graduation with honor to Carol Guthrie.

Early Monday morning everyone trekked to Bloomington for graduation. I started to say "bright and early," but the day was not very bright. It was *wet*, so wet that for the first time in years the ceremony was held in the Field House. Slightly mused and muddy, twenty-four dental hygienists received their certificates and then returned to Indianapolis to take their State Board Examinations.

In addition to the graduates of this school, there were seven graduates of other schools taking the Board. On the second day of the examination the officers of the Indiana State Dental Hygienists' Association held a coffee and punch hour in the Conference Room.

As the results of the Board were out in a few weeks, most of the new graduates have started to practice. Janice Baird Bargmeyer expects to practice in South Bend, where Dr. Bargmeyer will be serving an internship. Judith Becker will be associated in practice with the Risk Dental Clinic in Lafayette.

In Indianapolis, Nancy Binford will be associated with Dr. Lyle Gant, Linda Lobdell with Dr. Richard Jordon, Patricia Nienaber with Dr. John Carmody, Judith Snyder with Dr. Robert Risk, and Jac-

queline Zumbrun with Dr. Willard Stamper.

Ann Buche has been granted a traineeship by the United States Public Health Service to attend the University of North Carolina to complete a Bachelor of Science Degree in Dental Hygiene with a major in public health.

Patricia Cox will be associated in practice with Dr. Richard Glassley and Dr. Emory W. Bryan in Fort Wayne. Donna Doss will take the Colorado State Board and expects to practice in Denver.

In Bloomington, Josephine Gaunt will be associated with Dr. Robert Baugh and Grace McCarty Langley with Dr. Robert Linnemeir. Cecile Houk Enochs will be associated with Dr. Edwin Trook in Marion, Carol Ann Guthrie with Dr. Richard Wulff in Evansville and Ann Reibel with Dr. James G. Pierce in Anderson.

In the South Bend area, Elizabeth Hoehn will be associated with Dr. Daniel R. Lindborg and Dr. Hugh D. Francour, Sue Kraybill with Dr. Ralph Brennan and Dr. William S. Flack, and Judith Haag with Dr. Harold D. Kesling and Dr. Robert A. Rocke.

In Kokomo, Ann Smith will be associated with Dr. Clyde T. Mayfield and Dr. Bridane W. Brandt and Charlotte Tamler with Dr. William Maxwell. Marjory Urschel took the Kentucky Board and hopes to practice in Louisville, where her husband, Dr. Louis Urschel, D'58, will serve his internship. Carolyn Meserve will leave early in August to join her husband, who is stationed with the Army in Germany. Martha Jo Crawford has joined her husband, who is stationed at Fort Eustic, Virginia. Rossya Kaufman will visit her parents for a few weeks in Wichita Falls, Texas, then expects to return to practice in Indianapolis.

LIBRARY

(Continued from page 14)

following members of the faculty: Dean M. K. Hine, Doctors L. R. Bailey, J. F. Hall, J. F. Johnston, R. A. Misselhorn, D. F. Mitchell, R. S. Ping, E. J. Rogers, and Mr. R. W. Phillips. Other donors have been the libraries of the Indiana State Board of Health and the Veterans Hospital, the Medical Library Association Exchange, Dr. C. E. Worth, Dr. W. R. Meeker, Peru, Indiana and Mrs. Arthur McKey, Hillsboro, Indiana. Among the books from Mrs. McKey were copies of Eberle's "Surgery" in 2 volumes, 1838, which have been added to the Rare Books collection.

An oil painting, "Indiana Summer," by Frank Girardin was received from Mrs. Agnes Orr Chattin of Richmond, Indiana, in memory of her husband, Dr. Robert

A. Chattin. Frank Girardin, an Indiana artist, was born in Louisville, Kentucky in 1856 and lived in Richmond, Indiana a number of years. Some of his paintings hang in the Richmond Art Association Gallery.

Our library has given a number of single issues of periodicals to the library of the Central State Hospital in Indianapolis and to the newly established library of the University of Kentucky Medical Center in Lexington, Kentucky. Several hundred issues of periodicals were mailed through the Medical Library Association Exchange to dental and medical libraries throughout the United States with from 1 to 3 packages going to libraries in Argentina, Canada, East Africa, England and Hawaii.

Three full-time persons are now on the library staff, a third person having been added this fiscal year.



Oil painting, "Indiana Summer," presented to Library by Mrs. Agnes Chattin.

ALUMNI NOTES

(Continued from page 18)

Class of 1945

We received a correction of address from Dr. C. R. Herrick, whose address is now 1414 East Cleveland Avenue, Hobart, Indiana, where he erected a new building for his offices a few years ago.

Class of 1946

Lt. Col. Charles C. Alling, Chief, Oral Surgery, Letterman Army Hospital, San Francisco, California, writes, "My assignment as the Staff Oral Surgeon at this hospital involves the usual commitments of a large active teaching center . . . interestingly enough, I gave a series of lectures on maxillofacial injuries to the senior class of the College of Physicians and Surgeons . . . I do look forward to receiving the Bulletin and hope that it will continue through the years; my ties to Indiana University are quite strong and I am anxious to keep in touch with my Indiana Home through the Bulletin.

Dr. W. L. Croxton's address is 415 East Earl Street, Lafayette, Indiana.

Class of 1948

Dr. Philip M. Whisler, 508 West Bay Drive, Largo, Florida, writes that he has not been receiving his Bulletin . . . we do hope he receives this and all future issues!

Class of 1951

Dr. and Mrs. F. M. Hapak, 6302 Guilford Avenue, are the proud parents of five children!

Dr. Dean Taggart, Central State Bank Building, Whiting, Indiana, says, "I thought I would drop you a line just to let you know I am moving to Florida this June or July—I took the Florida board last July after you so kindly sent my transcript in; in fact, that transcript is what did the trick for me, when they saw what a good student I was they just

couldn't resist giving me an ovation! It seemed funny working with "spies" looking over my shoulder again. I had to pound a class three foil (my only experience has been taking foils out since I.U. S.D.). But like everything else skill will out. I am moving to Bradenton, Florida, so if anyone wants a euchre lesson, just drop in."

Class of 1952

We were so pleased to note that Dr. Ernest Besch, 1008 Medical Arts Building, San Antonio, Texas, is, according to information received from Dr. Franz Stumpf, "wide awake and doing things in his community." Dr. Besch served as instructor for a course in Dental Office Management in San Antonio.

Class of 1953

Dr. Robert K. Carnes sends us a change of address to 1836 West Main Street, Richmond, Indiana.

Dr. Robert Haynes (Captain) Base Dental Surgeon, Gunter Air Force Base, Montgomery, Alabama, postcards that he has been taking a 'vacation', since he has everything well organized.

Class of 1956

Dr. George A. Batcho, 236 165th Street, Hammond, Indiana, says, "This is to inform you as to a change of my address after completing two years of active military service. My two years in the U.S. Navy at Great Lakes, Illinois, were interesting and fruitful. Much experience was gained, and also a wife, the former Miss Mary Ann Huneck (Class of 1955 Dental Hygiene) of Marion, Ind."

Dr. Vithal Bhatavadekar, Carni Road, Bombay, India, received his M.S.D. from Indiana University in 1956, sent us an announcement of his marriage on March 1, 1958 to Dr. Prabha Wadthekar in Bombay.

Dr. William W. Rogers' new address is Fifth St. and Swan Road, Tucson, Arizona.

(Continued on next page)

Class of 1957

Dr. Howard Bonnett announces a change of address to Greensburg, Indiana.

1st. Lt. Calvin M. Fair, 05500348, U. S. A. Dispensary, Port of Whittier, Alaska, APO 987, Seattle, Washington, wrote us and included the following interesting detail: "You might be interested to know that we have officially had some fifty feet of snow here this past winter—so far." (And his letter was dated 10 April 1958).

Dr. John L. Stamper, Dental Unit, Yakima Indian Agency, Dept. of Health Education and Welfare, Public Health Service, Toppenish, Washington, writes "At the present time my wife and I are living in Central Washington, at Toppenish. I am stationed here with the Dental Unit of the Public Health Service on the Yakima Indian Reservation. We are anticipating staying here until my military tour is over, in 1959, at which time we will be returning to Indiana. October 18, 1957, we had a baby daughter, and we named her Sharon Elaine. She is healthy and full of energy and keeps us busy."

Class of 1958

Dr. and Mrs. Russell C. Boyd have sent us their address: 14530 S. W. 292 Street, Leisure City, Homestead, Fla.

Dr. and Mrs. W. A. Leuenberger have announced the arrival on July 1 of a daughter, Laurel Dianne.

And now for the addresses of the Class of 1930! As usual we sent out questionnaires to the members of the class and these data are the results of their replies. An asterisk before the name indicates we did not receive an answer to our letter. If you know of the address of those for whom we have no address, we shall appreciate hearing from you; we shall also welcome corrections, as well as news, news, news!

Class of 1930

*Allendorf, Frederick K.
1064 Rose Building
East 9th Street
Cleveland, Ohio

Bradford, Gordon H.
Deceased

Buchanan, Robert S.
1007 Cook Tower
Lima, Ohio

Carpenter, Stephen K.
4135 Erie Street
Willoughby, Ohio

Elliot, Warren S.
Deceased

*Epstein, Louis C.
1303 East 110th Street
Cleveland, Ohio

Everett, Charles A.
6017 Crittenden
Indianapolis, Indiana

Kabat, Joseph R.
1902 Indianapolis Blvd.
Whiting, Indiana

Kroczek, Stephen E.
1526 Park Drive
Munster, Indiana

*Levin, Benjamin
317 Centennial Building
New Castle, Pennsylvania

Lytle, Floyd E.
1729 East McMillan Street
Cincinnati, Ohio

*Madorsky, James Max
3503 East 93rd Street
Cleveland, Ohio

Meyer, Harry C.
4101 Madison Avenue
Indianapolis, Indiana

*Ostroski, Joseph J.
3997 East 71st Street
Cleveland, Ohio



Reunion of Class of 1928 held during centennial meeting of the Indiana State Dental Association, May, 1958.

Percifield, Harold E.
902 Washington Street
Columbus, Indiana

Phillips, Craig E.
Box 841
Forsyth, Montana

"Married, 3 girls and 1 boy, 4 grandchildren. Hobby: fishing and hunting."

Richardson, Wade F.
Deceased

*Schenker, Joseph D.
6502 Loraine Avenue
Miami, Florida

Schmid, Sylvester A.
1537 Hollywood Avenue
Cincinnati, Ohio

"Past President: Cincinnati Dental Society, Past President: Ohio State Dental Association, President: Cincinnati Board of Health Since 1956, Council Membership, A.D.A. Since 1955."

Talbott, Daniel F.
Deceased

*Williams, Eugene H.
209 Old Mint Building
San Francisco, California

*Woltermann, Lester R.
45 Rossmore
Newport, Kentucky

Symposia 1958-1959

Oct. 15—*Partial Denture Design and Construction*

Drs. A. Metty and R. Nissle, U. of Michigan, Dr. R. Bogan, Dr. J. F. Johnston, Dr. D. M. Cunningham

Dec. 3—*New Concepts in Materials and Equipment*

Dr. A. W. Grunewald, Northwestern University, Dr. F. A. Hohlt, Dr. D. A. Boyd, Dr. D. F. Mitchell, Dr. J. F. Johnston, Dr. W. Kemper, Prof. R. W. Phillips.

Mar. 4—*Integrated Clinical and Preventive Dentistry for General Practice*

Dr. Garvey, St. Paul, Minn.

Refresher courses scheduled at this time (others may be added).

June 15-19—*Complete Denture Construction*

(This course may be given on consecutive Wednesdays)

June 22-26—*Partial Denture Design and Construction*

(For dentists and technicians)

July 27-31—*Laboratory Phases of Crown and Bridge Construction*

(For dentists and technicians)

Oct. 19-23—*Crown and Bridge Construction*

(Emphasis on jacket and veneered gold crowns)

Feb., 1960—*Two-day Refresher Course for Dental Assistants*

OBJECTIVE OF PARTIAL DENTURE

(Continued from page 15)

from this year's senior class will be added. The Partial Denture section is headed by Dr. D. M. Cunningham. He is assisted by Drs. Robert Bogan and John Borkowski and Mr. Calvin Kernodle, technician. Much of the mouth preparation is supervised by Dr. Roland Dykema and the members of the Crown and Bridge section.

These men believe in what they teach. Some of their enthusiasm is transferred to the students. Within ten years approximately five hundred dentists who have been exposed to our philosophy will be practicing in Indiana. Some of them will hew to the "party line." Others will backslide and be reconverted later. Some will be lost altogether. Such has been the history of fixed bridge construction since 1950. Partial denture construction doubtless will follow the same pattern.

Third, five crown and bridge symposia plus postgraduate courses and program participation helped to acquaint the profession with our beliefs. Next October, Indiana University School of Dentistry will present the first of a similar series of one-day programs on partial denture design and construction. A refresher course will be given in June of 1959. This will be followed by others for dentists and technicians.

We hope many of you will be interested sufficiently to get in the swim.

PILOT STUDY

(Continued from page 8)

osteogenic effect, because of the extreme necrotizing and inflammatory reaction.

4) Healing was delayed in the scorbutic animals as compared to the controls.

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Miss Fisk presenting award for proficiency in dental hygiene to Ann Buche during Honor's Day program.



Dr. Carl Frech makes American College of Dentists award to William Gilmore.



Dr. Miles Standish congratulates essay contest winners Robert Mattern, Thomas Kaminski, and Robert Moon.

THE INTERNATIONAL ASSOCIATION FOR DENTAL RESEARCH

This is to certify that

J. O. BECK JR.

has been presented

THE EDWARD H. HATTON AWARD

*in recognition of the scholarly excellence and the
effective presentation of his first scientific paper
read before an annual session of the Association.*



Upon the recommendation of the
undersigned committee:

H. Standish Dean
W. J. Hargreaves
Ray C. Beebe
Helmer T. Knighton

The 36th Annual Meeting

at Detroit, Michigan
(Place)
March 21, 1958
(Date)

Arvid G. Sogman
President
Wm. J. Hargreaves
Secretary

Certificate awarded to J. O. Beck, Jr., during annual session of the International Association for Dental Research, Detroit, Michigan, March, 1958. Mr. Beck, a junior dental student, was this year's recipient of the Edward H. Hatton Award, which is presented annually to the outstanding research paper presented by an investigator who is making his first appearance before this association.

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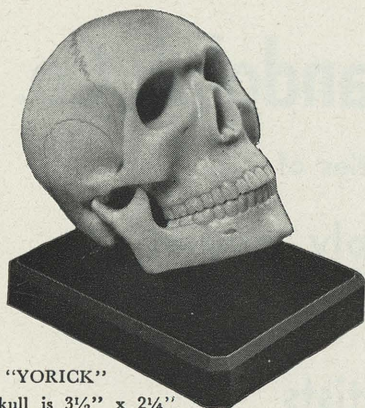
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