ALUMNI BULLETIN

Indiana University School of Dentistry

VOL. III AUGUST, 1940

Dr. Claude R. Baker **Appointed to Dental** School Faculty



The alumni of Indiana University School of Dentistry will be pleased to know that there has been created in the school a department of oral diagnosis under the direction of Dr. Claude R. Baker.

Dr. Baker comes to Indiana from the faculty of the Univer-(Continued on page 3)

Internes Appointed

Each year we have seen an increasing number of dental students taking advantage of the different internships offered throughout the country. This year the number is greater than ever. There is an increasing tendency toward the dental graduate availing himself of every opportunity offered to be better equipped for the practice of his chosen profession.

This year, however, this number was probably affected by the unsettled European situation and the threat of compulsory military training. Many graduates have expressed fear of being called to service soon after opening an office and contracting for their a teaching fellow in zoology at dental equipment.

New Faculty Members on Dental **Teaching Staff**

The alumni of Indiana University School of Dentistry will be interested in information concerning the additions to the dental staff as a result of courses to be given in the medical school. Heretofore, anatomy, histology, physiology, bio-chemistry, bacteriology, pathology, and pharmacology have all been taught in the dental school by a teaching staff different from that which offers instruction to the medical students. Under the new plan these subjects will be given by the same instructors who teach the medical students. This is an exceptionally well selected, trained, and qualified staff as will be noted in the following brief statements concerning them.

Anatomy will be given under the able direction of Dr. Edwin N. Kime, Professor of Anatomy, and Dr. Martha T. Strong.

Dr. Kime follows Dr. B. D. Myers as head of the department of anatomy and is especially well prepared in the practical application of a knowledge of anatomy. Dr. Kime received his A.B. degree in 1912, his M.D. in 1916, and M.D. cum laude in 1917, all from Indiana University. Dr. Kime has been teaching anatomy for twenty-five years and has been in charge of postgraduate instruction in anatomy at the medical center for the past five years.

Assisting Dr. Kime will be Dr. Strong. We point with pride to the enviable record of Dr. Strong in her training as an anatomist, her teaching experience, and her brilliant research record in this field. Her Bachelor of Science degree was received at Knox College in 1920, followed by Master of Arts in 1925 from the University of California. Dr. Strong received her Ph.D. degree from Indiana University in 1936. Dr. Strong's teaching record dates back to 1920 when she began as

(Continued on page 2)

Students To Have Lounge in Dental School

There has been a long felt need for a place for our dental students to rest and lounge during the noon hour or during a vacant period, a place where the surroundings would be pleasant and restful. This is particularly important because of the surrounding neighborhood and because the Indianapolis campus is removed from the facilities and atmosphere offered by the Bloomington cam-

Plans for the lounge are now being formulated. The room previously occupied by the freshman lockers will be converted into such a room. The lockers will be removed and taken to the Bloomington campus where our students will spend their first year in the dental program.

The room will then be furnished with comfortable chairs, suitable periodicals, and reading tables. Well-made oak tables with detachable tops will be provided and assigned to each class. It is hoped that carving ability so highly developed in the dental student will manifest itself in the form of some very handsomely carved table tops. Initials, teeth, skulls, and football scores are suggested subjects. If we should get some really noteworthy results, the tops can be hung in the dental school halls as constant reminders to the returning alumni of the many happy associations and hours spent in the lounge.

The room can also serve as a comfortable meeting place for various student organizations such as the student council, class officers, etc.

Eventually the lounge will be self-sustaining as it is to be equipped with automatic dispensing machines providing milk, candy, cigarettes, and soft drinks. The proceeds from these machines will revolve in a fund for activities in which the students will have a voice through the student council.

The immediate furnishings may be something of a problem. Contributions from generously mind-

(Continued on page 3)

Newly Appointed Assistant

No. 1



Mr. Ralph W. Phillips will assist Dean William H. Crawford in the teaching of a course in dental materials. Mr. Phillips graduated in June from Indiana University where he received the B.S. degree in physical chemistry. He is a member of Alpha Chi Sigma and Phi Lambda Upsilon, honorary chemistry fraternity.

Mr. Phillips is twenty-two years (Continued on page 4)

Dr. Key Appointed To State Board

Appointment of Dr. Virgil Key of Princeton to the Indiana State Board of Dental Examiners was made July 29th by Governor M. Clifford Townsend.

Dr. Key succeeds Dr. J. M. Hale of Mount Vernon, secretary-treasurer, who has been a member of the board for fifteen years.

The board will be reorganized at a meeting in the Claypool Hotel, but the date has not been set. Dr. Ross R. Kennedy of Elkhart is president.

Members are appointed for four year terms but can be removed at will of the Governor. Appointments are made from a group of three candidates named by the Indiana State Dental Association.

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A free and non-profit bulletin issued quarterly by Indiana University School of Dentistry for the purpose of keeping its Alumni informed of the activities and progress of the school.

J. L. Wilson. . Editor in Chief

Dental School Library

The following books have been added to the library since January 1940:

A.M.A.—The Pharmacopeia and the Physician 1939

A.M.A.—Selected Questions and Answers 1939

Arbutus 1940

Bailey—Textbook of Histology 9th Ed. 1936

Bell—Textbook of Pathology 1938 3rd Ed.

Bennett—The Chemical Formulary V. 4, 1939

Bennett—Standard Chemical and Technical Dictionary

Brauer, Higley, and Boyd—Dentistry for Children 1939

Bremer—Textbook of Histology

Chemists' Year Book 1940

Clement—Nitrous Oxide-Oxygen Anesthesia 1939

Coolidge—Clinical Pathology and Treatment of the Dental Pulp and Periodontal Tissues 1939

Cumulative Book Index 1938-39 Dutton—Headache and Head

Pains 1939 Grossman—Root Canal Therapy

1940 Karsner—Human Pathology 5th

Ed. 1938 Mawson—Dictionary of Foreign

Terms 1934 Mead—Diseases of the Mouth 5th

Ed. 1940

Neurohr—Partial Dentures 1939 Orban—Dental Histology and Embryology 2nd Ed. 1929

Osgood—Laboratory Diagnosis 3rd Ed. 1940

Polk's Indianapolis City Directory 1940

Quarterly Cumulative Index Medicus V. 26, July-December 1939 Smith and Gault—Textbook of Pathology 1938

Stedman—Practical Medical Dictionary 145th Ed. 1939

Sure—The Little Things in Life Vaughan—Congenital Cleft Lip, Cleft Palate and Associated Nasal Deformities 1940

Woodhouse—Dental Careers 1939 1939 Year Book of Dentistry

Activities of the Committee on Admissions

Judging from the number of pre-dental credentials which have been submitted to the Committee on Admissions so far this summer, the freshman class entering the school of dentistry this fall will show a definite increase over last year's class. The Committee on Admissions has been meeting at least once every week since spring and has considered new applications at each meeting.

The requirements for admission to the school of dentistry are sixty semester hours of collegiate work taken in an accredited college or university. This is the equivalent of two years of collegiate study, and the applicant must have earned a corresponding number of credit points or a "C" average for this work. The school of dentistry requires that there be included in the above sixty hours six hours of English, six hours of physics, twelve hours of chemistry, at least four of which must be in organic chemistry, and six hours of zoology. The remainder of the sixty hours may be composed of elective subjects selected by the student from a list prescribed by the school and published in the school's catalog.

The Committee on Admissions, which is under the supervision of Dr. Frank R. Elliott, Director of Admissions for the entire University, and Dean William H. Crawford, has been very critical of all pre-dental credentials submitted by prospective students. Particular attention has been given to the quality of the pre-dental work as indicated by the grades or credit points earned by the applicant. The committee feels that by maintaining strictness in this important phase of the admission requirements only the better qualified applicants will be accepted to comprise the freshman class.

Up to and including the meeting of the Committee on Admissions on August 1, the activities of the committee can be reported as follows: total number of applications received 106; applications approved and accepted including 41 who have matriculated 53; applications rejected 37; applications on file pending satisfactory completion of work now in progress in summer school 16.

These figures show an increase when compared with those of last year at the same time. The figures of last year are as follows: total number of applications received 66; applicants approved and accepted 41; applications rejected 25; accepted applications already matriculated 21.

State Board Results

The results of the State Board of Dental Examinations this year were very gratifying. From a senior class of forty-six graduates at our school, thirty-nine presented before the board for Indiana licenses. Of that number there were no failures.

No doubt there are many factors effecting a result of this kind, such as rigid entrance requirements for the prospective dental student, more intensive dental training, better teaching facilities, and many others. One big factor is the type of men we have had on our State Board for the past several years. These men have not only been interested in dental education, but have also had the ability to display assurance that the dental board is not a stumbling block in the path of the graduates, but its aim is to find out how much dentistry they know to qualify them to practice.

Indiana University School of Dentistry is very proud of this record and hopes to continue producing such excellent results.

Former Registrar Dies

Miss Essie Bowles, former registrar and secretary to the late Dean F. R. Henshaw of Indiana University School of Dentistry, died Thursday, July 25th, at the home of her sister, Mrs. Alice Reid, in Valparaiso, Indiana. She had been seriously ill for three months.

Miss Bowles had been in the employ of Indiana University twenty-two years. She came to Indianapolis in the summer of 1919 from the I. U. Bookstore to act as secretary in the office of the state geologist, Doctor Logan. After two years here, she returned to the campus at Bloomington and remained in the Bursar's office until January of 1926, when she returned to Indianapolis to serve in the capacity of registrar and secretary at Indiana University School of Dentistry where she remained until August of 1935. At this time she took over duties in the office of the Coleman Hospital which position she held at the time of her death.

Miss Bowles possessed a very fine mind and was liked and respected for her kindness and fairness to everyone. She has left many memories in the minds and hearts of all those with whom she had associations on the I. U. campus.

Internment was made July 27th at Orleans, Indiana, her birthplace.

New Faculty Members

(Continued from page 1)

the University of California. She came to Indiana University in 1925 as an assistant in zoology and thence to the University of Michigan in 1928 as an assistant in anatomy. Returning to Indiana University, Dr. Strong has served constantly in the department of anatomy since that date. During these years, she has done a great deal of excellent research in the closely related fields of anatomy and physiology.

Physiology will be taught by Dr. Paul M. Harmon, Professor of Physiology, and Dr. V. Brown Scott, Assistant Professor of Physiology. Professor Harmon has the following degrees: A.B., Indiana University 1914; A.M., 1915; and Ph.D., 1920. Listed in "American Men of Science," Dr. Harmon well deserves recognition for scientific achievements resulting from research in problems related to physiology. His recent investigative work has been related to the physiology of exercise.

Dr. V. Brown Scott, who will assist with physiology instruction, received his A.B. degree from Lawrence College, Appleton, Wisconsin, in 1927; Ph.D. from the University of Chicago, Department of Physiology, 1934; M.D., from the University of Chicago, 1935; Interne in Surgery, A.M. Billings Hospital, Chicago, 1936-37. Dr. Scott has to his credit a large number of published papers in research problems in physiology. A great part of his work has been done on the pancreas, its secretions and their effect on metab-

Dr. Russell L. Jones, Assistant Professor of Anatomy, will be responsible for the teaching of histology. Dr. Jones received his early training at Westminster College where he received his A.B. degree in 1930. This was followed by a Master of Science degree at St. Louis University in 1932, and a Ph.D. in Anatomy, at the Lniversity of Minnesota in 1932. Dr. Jones has done some excellent research work in neural anatomy and physiology of the human foot.

These subjects will all be given in the new medical building on the Bloomington campus where equipment is being added and arrangements for caring for dental students are being made. In addition to these subjects, biological chemistry will be taught in the chemistry building by Dr. Harry G. Day. Dr. Day is a new addition to the chemistry staff and comes to us from Johns Hopkins University where he has been

(Continued on page 4)

Instrument Purchase System Changed

Students to Get Benefits of Discount on Instruments-Dealers' Cooperation Secured.

The faculty of Indiana University School of Dentistry is pleased to announce that arrangements have been made with the local dental supply dealers whereby our students will receive a discount on the list price of dental instruments and equipment.

After a series of conferences between representatives of the dealers and the college, the following working plan has been arranged. It is hoped that all obstacles have been foreseen and that the proposed program can be inaugurated with the minimum amount of change and confusion.

The required instrument lists are submitted to the supply houses together with the number of each set of instruments which will be needed, depending upon the size of the class. The kits will then be delivered to the university bookstore at the regular college discount of 25%. Students will then purchase the kits from the bookstore at a discount of 10%. The remaining 15% will be set aside as a student loan fund to be administered to worthy and needy students. In this way the student body will receive the benefit of the entire 25% discount, and no part of it will be retained by the bookstore for clerical or other incidental expenses incurred by the transaction.

During the four years of dental education, each student provides himself with approximately \$600.00 worth of equipment at list price. The school at its maximum capacity can enroll 50 students in each class. This means a total expenditure of \$30,000 a year for instruments. The student body would, under these circumstances, receive a direct benefit of \$3,000 and an added benefit of \$4,500 in funds available for loan. As the latter accumulates, we are planning to use a part of it for scholarships or direct gifts. Through these arrangements it is hoped that many worthy Hoosiers will be provided the opportunity to study dentistry who otherwise would be denied that privilege.

developments These point to the interest the dental supply dealers manifest in promoting educational opportunities at Indiana University. We wish to take this opportunity to commend publically Mr. Claude E.

Snyder and Mr. George W. Davidson of T. M. Crutcher Dental Supply Depot and Mr. Carl H. Schad of Ransom and Randolph Dental Supply Depot for their philanthropic attitude toward dental education and compliment them for their complete cooperation in this program. We are sure that without their cooperation these plans never could have been consummated.

Student Lounge

(Continued from page 1)

ed alumni will be greatly appreciated, and suitable recognition will be given to anyone wishing to assist the students in providing a congenial and pleasant academic atmosphere.

Alumni will also find the room a pleasant place to rest and wash during the various meetings held at the school when the mid-winter alumni meeting and afternoon of clinics are held in the college at the time of the meeting of the Indiana State Dental Association.

The Department of Oral Diagnosis

The foundation matrix of the department of oral diagnosis at the school of dentistry is beginning to form. This division will exist primarily as a teaching function in cooperation with the various departments concerned with dental treatment and as a source for future dental research material. In short, it is a cog in a well-rounded dental curriculum.

The departmental aim will be to assist the student in a clear understanding, in the light of present knowledge, of the dental diagnostic problems that will confront him. To effect this, a broad clean-cut scientific approach will be employed as the chief armamentarium.

The dental student in this division at Indiana will carefully record in complete clinical detail the existent objective general health and the condition of the dental tissues of the patients that present at the clinic. Cognizance of the patient's general systemic health picture in correlation with the complete dental findings will be the basis for intelligent dental treatment. With the aid of the diagnostic material recorded, the student, assisted by the instructors in other departments, will select that type of treatment best suited for the particular patient.

Dental Materials Laboratory Established

There is little question that, as far as research problems in dentistry are concerned, those related to biology are the most important. However, until the cause of caries is known and can be easily controlled and until the destruction of tissue due to peridontal disorders is prevented, the dental profession must continue to treat dental disease by restorative measures.

Since operative, prosthetic, and orthodontic treatment will be necessary, your dental school plans an extensive program of research relating to materials used in the restorative phases of dentistry, and a laboratory has been established for carrying out this program. Instruments for testing dental materials are being collected rapidly. The experience Dean Crawford has had in equipping and developing similar laboratories at the University of Tennessee and at Columbia University now proves invaluable in the wise sclection of equipment.

Instruments for testing the slight dimensional changes in the setting of amalgam have been assembled. Equipment for determining crushing strength of amalgam, plastic filling materials, cements, stones, plastics, investments, and other materials has been received.

Accurate determination of very slight temperature changes is frequently essential in problems related to restorative purposes. For measuring temperatures and slight changes in temperature, the laboratory is exceptionally well equipped with a battery of potentiometers, pyrometers, thermocouples, and thermometers. Equipment for development work and problems relating to dental castings is being assembled.

One of the most important phases of research in dental materials is the correlation of laboratory testing and clinical application. A cooperative program of the clinical teachers and the dental materials laboratory will be helpful in determining which physical properties have a clinical Dr. Wilson, application. Boyd, Dr. Pallardy, and others have expressed their desire to conduct controlled clinical experimentation to determine what physical properties are required of materials to provide satisfactory re- their professional endeavors."

sults. At present, desired physical properties are specified largely on a theoretical basis, and it remains for the profession to verify theory with practice by a group of well informed clinical operators. The quality of our teaching staff, their co-operative spirit, their desire to answer unsolved questions, together with facilities to know accurately what proper-

(Continued on page 4)

Dr. Baker

(Continued from page 1)

sity of Minnesota School of Dentistry at Minneapolis. He is twenty-nine years old, married, and has two children. Dr. Baker possesses a very genial disposition, wears a genuine smile, and engages your interest readily.

In making inquiry into Dr. Baker's life, one cannot help being impressed by the accomplishments he has made in his relatively brief professional career. He was born in Sioux Falls, South Dakota. His collegiate education was received at Carleton College, Northfield, Minnesota, Hibbing Junior College, Hibbing, Minnesota, and the College of Science, Literature, and Arts, University of Minnesota, from which he received the A.B. degree.

Dr. Baker was granted the D.D.S. degree in 1935 from the School of Dentistry, University of Minnesota. After serving an interneship in the school, he was appointed to the faculty as instructor in the department of crown and bridge. His ability in this department warranted his advance to the rank of Assistant Professor of Dentistry.

During the teaching service in the dental school, his activity in graduate study, research, and the allied sciences was directed along lines pertinent to dentistry, and because of this Dr. Baker received the degree M.S. in dentistry from the graduate school of that institution in 1939. This was the first M.S. degree in dentistry granted by the University of Min-

Dr. Baker is a member of Omicron Kappa Upsilon and Sigma Xi fraternities.

His philosophy of the teaching task is as follows: "Everything about our school should be geared primarily to one aim-to equip our students with the best that we have in the light of our present knowledge, maintaining a broad scientific approach, a sound basic science, and technical training, to the end that our graduates will credit themselves well in all

New Faculty Members

(Continued from page 2)

working in the Department of Nutrition and Public Hygiene under the direction of Dr. E. V. McCollum. In his research work, Dr. Day has been much interested in the general subject of "Inorganic Chemical Elements in Nutrition" and especially the part played by zinc in this field.

On the Indianapolis campus the dental students will receive instruction in bacteriology under the direction of Dr. Thurman B. Rice, Professor of Bacteriology. Rice is already a well established member of the dental faculty, having conducted courses in public health and hygiene for some time. He will be assisted by Dr. Donald J. White, Associate Professor of Bacteriology, and Dr. Lyle A. Weed, Assistant Professor of Bacteriology. Dr. White received his B.S., 1927, and M.D., 1929, from Indiana University. After two years at the City Hospital, Indianapolis, Dr. White became associated with the medical school and has been on the faculty since 1931. Dr. Weed received his A.B. in 1927 from Simpson College, Iowa; M.S. from Iowa State in 1928; and Ph.D. from Western Reserve in 1932. He has done a great deal of special research in syphilis. Dr. Weed came to Indiana in 1939 where he has been teaching and conducting research problems related to "Air Borne Bacteria," "Hodgkins Disease," and "Rheumatic Fever."

Pathology will be taught by Dr. Frank Forry, Professor of Pathology, assisted by Dr. A. M. Michael, Assistant Professor of Pathology, and Dr. Richard Nay, Instructor in Pathology.

Professor Forry enjoys an enviable reputation as an outstanding pathologist. His background, knowledge, and practical experience in pathology form an excellent foundation for his interest in teaching. Dr. Forry received his A.B. degree from DePauw University in 1910 and his M.D. degree from Indiana University in 1918. He has served the university in a teaching capacity since his graduation. Dr. Forry has been a diligent worker in collecting pathological teaching material, and he now has a very exceptional collection of pathological specimens and sections. His research work has been done largely in problems related to the kidney.

Dr. Michael received his early training at DePauw University where he received his A.B. degree in 1925. His M.D. degree came from Indiana University in 1932. Dr. Michael has been associated try.

with the department of pathology in a teaching capacity since 1933. During the time not occupied by teaching responsibilities, Dr. Michael has been conducting research problems related to tuberculosis.

Dr. Richard Nay graduated from Indiana University Medical School in 1938, having received his B.S. in 1936. Following graduation Dr. Nay spent one year as intern and one year as resident in the University Hospitals.

The lectures in pharmacology will be given by Dr. R. A. Solomon, Associate Professor of Medicine. The laboratory work will be under the direction of Dr. Harold R. Hulpieu, Associate Professor of Pharmacology. Dr. Solomon has been on the faculty of the medical school since he received his M.D. degree in 1917 from Indiana University, having previously received a B.S. in 1915 also from Indiana. Dr. Solomon serves on the staff of the University Hospitals and has the Chair of Therapeutics in addition to the medical school title.

Dr. Hulpieu had his early training at Southwestern College in Kansas, receiving his A.B. degree in 1923. This was followed by a Master's degree from the University of Oklahoma in 1924 and the Ph.D. from Johns Hopkins in 1928. He has been with the University of Indiana since that date in a teaching and research capacity. Dr. Hulpieu assisted Dr. Harger in his important work concerning alcohol consumption which led to the invention of the well known "Drunkometer." Dr. Hulpieu is now engaged in work in relation to problems in general and local anesthetics.

As the quality of any school is measured by the qualifications of the various members of the faculty to teach their particular subjects, we point with pride to men now serving on the medical faculty who will teach dental students.

We are proud, therefore, of this new association, because we are certain that our dental students will benefit greatly. We feel that the closer relationship to the medical school will lead to a better understanding of mutual problems resulting in benefits to both professions. The added teaching burden has been assumed by the medical school in a most gracious, cooperative, and helpful attitude. We wish to take this opportunity to express our appreciation to the teaching staff, and particularly to Dean Willis D. Gatch, for the fine assistance and help offered us in this milestone of progress at Indiana University School of Dentis-

1940 Honor Society **Election Held**

In accordance with a provision in the constitution of Omicron Kappa Upsilon, national dental honor society, twelve percent of the members of the 1940 graduating class were elected to membership in Theta Theta Chapter of the society by its active members.

Candidates for consideration for election were nominated by Dean Crawford, and this list of names was submitted to the active membership at a meeting held at the end of the school year. The four year scholastic records of all of the candidates were reviewed, and an analysis was made of character, personality, gentility, and the probability and possibility of becoming highly creditable members of the profession. The balloting, which was held after due deliberation and consideration, resulted in the following persons being elected to membership in the society: Doyle E. Pierce, Chicago, Illinois; William F. Hanning, Indianapolis, Indiana; George G. Richardson, Marion, Indiana; Richard H. Howard, Boston, Indiana; James E. Baker, Odon, Indiana; and Charles A. Fly, Lima, Ohio.

The desire on the part of the under-classmen to be in the honored twelve percent of their class at the time of graduation creates a spirit of scholastic competition in the student body, which proves to be of unlimited value in the teaching program of the school.

Dr. Mary H. Westfall Dies

The death of Dr. Mary H. Westfall was a great loss to the dental profession of the state and nation, and many an individual member feels a deep personal loss at her passing. Her sincere friendliness, ready smile, and deep rich voice long will be remembered by those of us who knew and admired her.

She was graduated from Northwestern University Dental School in 1917. She was chairman of the education and oral hygiene committee of the Indiana State Dental Association and chairman of the visual education committee of the American Association of Public Health Dentists. She traveled over the state in her work as a staff member of the Maternal old and comes from Salem, Indiand Child Health Division of the ana. During the year he will as-State Board of Health.

Dr. Westfall is survived by two brothers, Curtis C. Westfall, Chicago, and Dr. B. K. Westfall, Indianapolis.

Dental Materials

(Continued from page 3)

ties are being used, will provide a program difficult to duplicate.

Everyone today looks to the physical chemist and his work in the field of colloids and plastics for revolutionary developments. In organizing this laboratory we have not been unmindful of the importance of this field and its application to dentistry. We have been able to secure the services of an outstanding student from Indiana University, Mr. Ralph Phillips, who will spend his entire time in research and development of restorative materials.

Dental students will receive a well organized course in metallurgy and physical properties of dental materials in their sophomore year. The course will be given by Dean Crawford and Mr. Phil-

Readers of the Indiana University School of Dentistry Alumni Bulletin may expect to find reports of practical and theoretical value in the future issues.

Soph. Dental Student Dies

It is with great sorrow that we announce the passing of Andrew Graham Larimore who died in Richmond, Indiana, July 22nd,

Born in Madison, Indiana, October 18th, 1917, the son of Mr. and Mrs. Lorien Larimore, he received his education at Madison's elementary and high school, and prior to entering dental school he was enrolled in Indiana University for his pre-dental training. At Indiana he was a member of the famous "Marching Hundred" band.

"Andy," as he was known to the student body and the faculty, will be long remembered by his ever present smile and cheery disposition. He was a member of the Sophomore class, Junior American Dental Association, and Delta Sigma Delta fraternity.

He is survived by his mother and sister, both of Richmond, Indiana.

New Assistant

(Continued from page 1)

sist Dean Crawford in research on dental materials, primarily in the development of plastics, for use in denture bases and cementing materials.