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A Letter to the Editor

American Association for the Advancement of Science

Dental Education: Objective and Purpose

American College of Dentists: Register of Membership

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AMERICAN COLLEGE OF DENTISTS

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AMERICAN COLLEGE OF DENTISTS

Objects: The American College of Dentists “was established to promote the ideals of the dental profession; to advance the standards of efficiency of dentistry; to stimulate graduate study and effort by dentists; to confer Fellowship in recognition of meritorious achievement, especially in dental science, art, education and literature; and to improve public understanding and appreciation of oral health-service.”—Constitution, Article I.

Announcements

Next Meeting, Board of Regents: Chicago, Feb. 7, 8, 1948.
Next Convocation: To be announced.

Fellowships and awards in dental research. The American College of Dentists, at its annual meeting in 1937 [J. Am. Col. Den., 4, 100; Sep. and 256, Dec., 1937] inaugurated plans to promote research in dentistry. These plans include grants of funds (The William John Gies Fellowships) to applicants, in support of projected investigations; and also the formal recognition, through annual awards (The William John Gies Awards), of distinguished achievement in dental research. A standing committee of the International Association for Dental Research will actively cooperate with the College in the furtherance of these plans. Applications for grants in aid of projected researches, and requests for information, may be sent to the Chairman of the Committee on Dental Research of the American College of Dentists, Dr. Albert L. Midgley, 1108 Union Trust Bldg., Providence, R. I. [See “The Gies Dental Research Fellowships and Awards for Achievement in Research,” J. Am. Col. Den., 5, 115; 1938, Sep.]
AMERICAN COLLEGE OF DENTISTS

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Journal
AMERICAN COLLEGE OF DENTISTS

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Those who yearn for the “good old days” are out of touch with the wishes and potentialities of the American people. None of the “good old days” were ever as good as the tomorrows which lie within every American’s power to shape for himself.

World leadership is a new job for us. America’s opportunity today lies in joining hands and leading the way to more freedom and prosperity for all.

We cannot see our opportunities in a crystal ball but we can see a good deal of them in new industries where people can profit from their ideas, their work and their investments.

—Earl Bunting,
EDITORIALS

VALEDICTORY—EULOGY—PROPHECY

BY THE EDITOR

Valedictory: “With this issue the present writer discontinues his editorship of this Journal. He does so with very deep personal regret, but in full accord with a conviction that the editorial leadership of a journal that represents a growing professional society, containing many men of eminent editorial ability, should be changed, at stated intervals, to keep the journal fully responsive to that organization’s development. The first volume of this Journal was published in 1934.”

This was part of a statement by the retiring editor, Dr. Gies, after having served a period of five years as then decreed by the By-Laws of the College. The present editor assumed this task in January, 1939, carrying along for a few years to the outbreak of the war, when he reached the end of his period of service. However, on account of changed conditions due to the war, it seemed well in the minds of the Board of Regents, substantiated by a mail vote of the membership, not to make any changes in the editorship until the conclusion of the war, when the matter would be submitted to the Convocation for final approval or rejection. Parenthetically, at that Convocation in Boston, this five-year tenure of office was modified to allow continuance of the editor if it seemed well. However, the present editor having served through a term of nine years, is now relinquishing that task.

It is with a feeling of regret because it has been a most enjoyable labor, one in which he has demonstrated to his own satisfaction, the truthfulness of the fact that one is rewarded according to the service rendered. This editor has put in his efforts which may or may not have been of value to others, but the results have been a source of no little satisfaction to him. Therefore, truly it is that to

relinquish this task is not a happy thought. On the other hand, it is a happy thought, for now he will be able to sit on the sidelines and watch the parade go on and up. He is one who thoroughly believes in Mill's dictum that our total culture must advance from period to period with succeeding generations, that is to say, one receives the total culture from another, raises it to a higher level and passes it on, and this retiring editor is smart enough to know that that is true. His predecessor in office set a very high standard. With the capabilities and contributions of Dr. Gies, all are thoroughly familiar. He set a standard that was to be maintained. We trust it has been maintained and we relinquish with the feeling that it will now be raised. We do not say “good bye” but we do say “au revoir.”

**Eulogy:** Indulgence has already been pretty well spent in Eulogy for it was the desire that Dr. Gies as the first editor should be praised for the work which he did and thanked for the help which he has been as we have carried on through these years. The profession must ever be grateful to him, and can never repay him, for the accomplishments which he made and the standards which he set. Our trust is that that standard may still obtain.

**Prophecy:** This task is being turned over to another who is not only well known within the profession but who, by virtue of his labors, has contributed much. Dr. Robinson, who assumes this task in January, is well known to all of us and his is a name with which to conjure. No single man within these years of his own time of activity has expended more serious and honest effort than has he. No effort will be made to arrange chronologically the accomplishments which have been his as that must be done only when his biography may be prepared. Now, he comes to that time in his life when instead of retiring from a field in which he has been so active, he assumes an editorial responsibility which places him in an enviable position to be useful and to use. He will be in such position as to be of no little value to his confreres who conduct the affairs of the profession and concommitantly, he can use his own knowledge
and good judgment in rendering advice and help. He is eminently qualified for editorial work and we will look to see the usefulness and the influence of the Journal greatly increased. More power to him as he assumes his office!

**Finale:** As this editor concludes his nine years of work, he does so with expression of thanks to his predecessor for the boost given him and with expression of appreciation to his successor for many years of intimate fellowship together, and with every confidence that the Journal will become more and more useful.

**A Philosophy of Dentistry**

During the past year, the Journal has submitted the story of the Dental Schools of the United States and Canada which, to some extent, will be continued in the months to come, in the submission of schools from other countries all over the world. An extensive list of schools, including pictures and statements, has already been developed and plans are being arranged for their publication in this or another Journal. What is the object of this?

First, perhaps, that through this possible more intimate acquaintance there may be developed an increasingly more intimate relationship and interest. But second, out of it there should come a statement as to the object to be attained through dental education, and a statement of the philosophy of dentistry. What is dentistry and what is the object? Dentistry definitely has two sides, the scientific or didactic, that is, investigative, instructional or advisory in terms of internal medicine, while on the other side, dentistry is definitely technical. In his practice, the dentist is called upon far more to do work with his fingers than to consult or advise out of his mind, and yet, this latter must be accomplished. And it is to no little degree in dealing with children and young people not overlooking older people within the field of geriatrics. It is an easy matter for dentists, even today, to practice their profession almost wholly technically, providing they make holes with suitable retention in teeth; or extract, by the extracting specialist; make
crowns, partial or complete dentures with the aid of laboratories, and thus carry on a lucrative practice.

Again, dental education should so equip one that if for some reason he is forced to change his vocation, it will still be useful to him in making his living. This in fact requires a knowledge different from technical knowledge only. Dentistry therefore, requires a set of general aims and objectives as well as a working philosophy or hypothesis concerning human existence, its aims and objects, which would indicate more clearly the definite service to be provided.

Education has in times past been thought to be an agency by which one is led out from a state of the unknown into a state of the known, from a state of ignorance to a state of understanding, from a state of ignorance into a state of knowledge, or that by which he has come to know that which he didn't know. This results from an analysis of the word as originally taught, but it is not sufficient. Education is a process by which man as a developing person, deeply rooted in history, moves in the current of temporal and eternal affairs. It involves growth, largely produced by what the individual himself does. And he "does" or acts according to his experiences. Education looks to the past, the present and the future; to the past, for thence it draws its capital; to the present, for here are living, active persons confronted with the opportunities and responsibilities of real life; to the future, for it is qualified so to deal with those persons that their actions in the present situation will not thereafter thwart and confine them, but give them added competence and wisdom. This comes as a result of a series of experiences. Therefore, education is a process by which one grows "from" and "to." Dental education must be such. It seems then that the task of dental education and dental educators as well as that of education and educators in general, is1 "to clarify the problems of meaning, of method and of value, as they relate to and grow out of moral experience, ethical theory, scientific explanation, political and economic life and the experience and underlying conceptions of religion and art."

1University of California Endowed Chairs of Learning, 1947, p. 6.
Within this clarification process, dentistry finds its place, both as a service agency and in other aspects as indicated therein. Dentistry, then, has not only a function to perform in equipping a dentist to render service technically, but it must also equip him for all of his relationships, and even to make a living in another channel if necessary.

Referring again to the two sides of dentistry or of dental practice, the following items have been suggested:

1. "Dentistry, without studied consideration, exaggerates and over-emphasizes the place of its prosthesis phases of practice to the detriment and neglect of the best interests of dental science as well as the highest service it can render its patients.

2. "Dentistry's undergraduates and graduates are primarily educated and stimulated to practice a prosthetic technology.

3. "The restorative, reconstructive and esthetic aspects of dental practice occupy an undue proportion of the dentist's time, energy and thought.

4. "Too little attention in dental practice is given to prevention, diagnosis and prognosis, and to the physiological and pathological factors basic to the complete care of the human mouth, considered as an organ.

5. "Though dentistry is aware of the growing incidence and progressive accumulation of odontal (dental) caries no adequate therapeutic or control measures are being provided other than greater stress on dental research. Should the research workers fail to provide specific means of control then organized dentistry offers no other adequate plan for the care of the public.

6. "Dental research workers are handicapped firstly, because they receive an inadequate undergraduate basic science training, and secondly, because they lack sufficient opportunities after graduation for engagement in basic biological and medical science research."

"Operative Dentistry—A Term Outmoded and Obsolete; Lindsay, Ashley W., D.D.S., M.Sc., LL.D., Dean, College of Dentistry, West China Union University, China. (Pamphlet.)"
BY THE EDITOR

It is always interesting to note the different use or uses which are made of words. Sometimes, perhaps, without much thought and many times, perhaps, more often to suit the whim of the writer. Reference is made to the use of the term medical science in item six above. Is there any rule by which any science can be confined in its use to medicine only, or by what right can any science be termed a medical science? But whatever the case may be, isn’t it worth while that attention be paid to the ideal and ideals coming to the fore as a result of the thinking of men growing out of the practices of the two sides of dentistry?

The following objectives of dental education may be apropos and this altogether may serve as a philosophy for dentistry:

OBJECTIVES OF DENTAL EDUCATION*

I. Dental education should foster in growing persons a consciousness of professionalism as a reality, and a sense of personal responsibility thereto.

II. Dental education should develop in growing persons an understanding and an appreciation of the opportunities of service as will lead to positive experiences, and will manifest itself in day to day labors.

III. Dental education should foster in growing persons a progressive and continuous development of ethical character.

IV. Dental education should develop in growing persons the ability and disposition to participate in and to contribute to the building of a social order throughout the world, embodying the ideals of educational and professional understanding and fraternalism.

V. Dental education should develop in growing persons the ability and disposition to participate in the organized society of dentists and the professions generally.

VI. Dental education should develop in growing persons an appreciation of the meaning and importance of the professional and

*With some paraphrasing from other educational objectives.
social ideal; and the ability and disposition to participate in and to contribute to the life of the whole social group.

VII. Dental education should lead *growing persons* into a professional interpretation of life and the universe; the ability to see in it a purpose and a plan; and a life philosophy built on this interpretation.

VIII. Dental education should effect in *growing persons* the assimilation of the best professional and scientific experiences of the day, preeminently those that have stood and will stand the test of time, that effective guidance for the present and the future may be obtained.

**ERRATA**

In the September issue of the *Journal*, page 136, note arrows between 1 and 2, 2 and 3, etc. Eliminate the second arrow between lines 1 and 2. This should be one arrow, pointing downward.

The same, page 137, between 3 and 4, eliminate the second arrow. There should be one, pointing downward.
THE COMPARATIVE VALUE OF TYPES OF POSTGRADUATE EDUCATION

E. FRANK INSKIPP, D.D.S.¹

San Francisco

Probably the words of Black regarding continuous professional study have been repeated so many times that they are no longer effective—we are so used to seeing them wherever dental education is mentioned. His observation, however, is so true that postgraduate study is a recognized must, not only in the minds of educators themselves, but to the members of the profession and most certainly our patients.

Postgraduate education, however, may and does take many forms, each having a different degree of effectiveness, some even to the point of having none at all, as little perhaps as a student sleeping through an entire lecture having once answered to the roll call. If we were to conduct a poll of dentists in the United States, we would find that a greater number would be found among those who attended regularly the annual few days of their respective State Meetings. A fairly equal number would attend their local component society meetings. A lesser number, because of travel problems, would be attending national meetings. Here then, is the place where the majority of our members endeavor to keep abreast of professional advances. Add to this the dental literature, both non-proprietary and proprietary, which must be evaluated according to the reading capacity of the individual, and we have reached the limit of graduate study of most of our profession. True, some have limits even smaller than this, but we feel that even these eventually find that they must extend themselves at least thus far.

Subjects presented at these scheduled meetings are necessarily limited, often crowding a summary into a short hour, or an entire

¹Assistant Clinical Professor of Operative Dentistry, College of Physicians and Surgeons, a School of Dentistry
technic into an evening following a heavy meal and a congenial party.

Additional educational facilities are provided, and should be encouraged. These extend in increasing proportionate value from Refresher Courses by associations, Graduate Courses in the colleges, and permanent and continuous membership in Study Clubs.

The Refresher Course is designed to give the maximum amount of information in a short time, to avoid taking too much time from today's busy practices, and to minimize costs. It is a very popular means of absorbing information, but its practical value is necessarily affected by the concentration of as much as eight continuous hours repeated a second day. Even the lecturer and his audience cannot obtain the best results from such a program. It nevertheless does provide a definite means of instruction which would be denied many who, because of location or type of practice could not participate otherwise.

Most dental colleges are now increasing the facilities for well organized courses for the graduate student each course limited to a prescribed study and department. More recently particular attention is being made toward the requirements of the graduate who wishes to study but one subject, without taking too much time at one period from his practice. Previously most of these courses in institutions were arranged for the student heading toward an advanced degree. The present trend is a credit to the institutions and of inestimable benefit to the profession.

Continuous and active membership in study clubs is perhaps the best practical training field for the dental practitioner. I am not alluding to the groups which meet for the purpose of discussing subjects or listening to lecturers on the topics of their selected interests. I mean those who meet at regular intervals, say every month, to actually practice under supervision their subjects. It is here that the practicing dentist evidences his highest skill, maintains the standards of practice he has set for himself, and progresses with every advance made in his field.
The practice of dentistry will never be an arm chair profession; it will always depend upon the individual skill of the man able to demonstrate with his hands that which his mind conceives, and based upon his basic scientific knowledge. The strong right arm is not sufficient; neither is the abundance of theory with little ability. Constantly repeated postgraduate education demanding actual practice is essential to dentistry. Encouragement of this type of study club should be a major project of our College.
FACTS ABOUT THE AMERICAN COLLEGE OF DENTISTS
AND ITS ORGANIZATION

O. W. BRANDHORST, D.D.S., Secretary
St. Louis

ORGANIZATION

The American College of Dentists was organized, August 20, 1920, by Arthur D. Black, John V. Conzett and H. Edmund Friesell, all of whom are now deceased. Others who are listed as founders are: J. F. Biddle, J. P. Buckley, H. J. Burkhart, W. A. Griffin, Clarence J. Grieves, Thos. P. Hinman, Victor H. Jackson, C. N. Johnson, C. Edmund Kells (all deceased); and Henry L. Banzhaf, Julio Endelman, Thos. B. Hartzell, Milus M. House, E. A. Johnson, Albert L. Midgley, Frederick B. Noyes, Roscoe H. Volland and Chas. Woodbury.¹

OBJECTIVES

The objectives adopted at that time were:

Promotion of the ideals of the dental profession
Advancement of the standards and efficiency of dentistry
Stimulation of graduate study and effort by dentists
Conferring of fellowships in recognition of meritorious achievement, especially in dental science, art, education and literature

Later, a fifth objective was adopted:

The improvement of public understanding and appreciation of oral health-service.

It will be noted that only one of these, the fourth, offers something to the member. All others exact something from him. The award to a member is fellowship in recognition of meritorious achievement. All others imply effort (work) on the part of a member toward definite goals or objectives of the College.

¹Presented at the convocation of the College, Boston, Aug. 3, 1947.
²See J. Am. Col. Den., 12, 153-164; 1945 (Sept.).
MEMBERSHIP AND METHODS OF ELECTION

During the following years and until now, 1651 regular Fellowships and 27 Honorary Fellowships have been conferred. At the present there are 1319 living persons holding regular Fellowship and 22 honorary Fellowship.

Fellowship in the College is by invitation—not by application. This makes it an entirely different type of organization than the usual. Fellows in good standing are privileged to nominate persons for Fellowship. Nomination blanks are provided for that purpose and nominations must be signed by two Fellows, from the same state or service area in which the nominee resides or functions, if possible. Nominations are made without the knowledge of the person who is nominated and only with the knowledge of the nominator and the person who seconds the nomination.

The nomination is sent to the Secretary, who in turn places it in the hands of the Board of Censors. Nominations must be in the hands of the Secretary at least four months prior to the date of the annual meeting.

The Board of Censors meets at least once each year to consider the nominations before it, each member of the Board having previously received from the Secretary, an exact copy of each nomination. At the meeting, each nomination is considered on its merits. The Board of Censors recommends to the Board of Regents those persons whom it deems worthy of Fellowship.

The recommendations of the Board of Censors and the approval of the Board of Regents are based on the assumption that
FACTS ABOUT THE A.C.D. AND ITS ORGANIZATION

the nominee approves the position which the College has taken on the control of dental journalism by the profession, and that by his record he supports the ideals of the College which are analogous to the best interests of the dental profession.

Therefore, when a person has been approved for Fellowship by the Board of Regents, the Secretary addresses a communication to the nominator, asking him to obtain assurance from the nominee regarding his attitude toward the control of dental journalism by the profession, by obtaining his signature to the following statement:

STATEMENT ON JOURNALISM

The American College of Dentists, through its Committee on Journalism, has gone on record as supporting the principle that the publication of dental periodicals for the profession should be under the control of the profession.

This control in no way restricts freedom of speech or of the press. On the contrary it gives assurance of freedom of expression by eliminating the influence of commercial interests. The American College of Dentists disapproves of any effort, by individuals or groups, that tends to make mockery of the principle or seeks ways to circumvent it. Neither should advertisements of products not complying with the requirements of such agencies as the Council on Dental Therapeutics of the American Dental Association, the Bureau of Standards, etc., which have been established to determine the merits of a product or the desired requirements of material, be accepted by professional organizations either for their journal pages or for exhibits at their meetings.

It is believed that these principles are in keeping with the highest traditions of the profession and persons being considered for Fellowship in the American College of Dentists are expected to subscribe to them. Their observance is a duty which the profession owes to its members and to the public.

I approve these principles and will support them.

(Signed) ........................................
(Address) ........................................

Date........................................

Upon receipt of this signed statement, an invitation to Fellowship is sent to the nominee, together with a copy of the by-laws and a statement by the Secretary relative to the American College of Dentists.
When acceptance of the invitation has been received and necessary
details have been cared for, arrangements for the conferring of
Fellowship are made.

THE CONFERRING OF FELLOWSHIP

As indicated above, there are two kinds of Fellowships—Active
and Honorary. Normally, Fellowships are conferred by the Board
of Regents at an annual convocation, which is usually held on the
Sunday preceding the meeting of the American Dental Association.
During the war emergency, the Sections of the College were asked
to complete the conferring of Fellowships for the Board of Regents.
No Honorary Fellowships were conferred during the emergency
period.

While the by-laws provide for the conferring of Fellowship
in absentia, "in the unavoidable absence of a member-elect, or for
any unusual reasons," the Board of Regents hesitates to recommend
this, except in cases of emergency, because it believes that much is
to be gained through the attendance of a newly elected Fellow at
a regular convocation.

ELIGIBILITY TO MEMBERSHIP

Objective 4 states that Fellowship may be conferred in recogni-
tion of meritorious achievement, especially in dental science, art,
education and literature.

The following statement on eligibility has been approved by the
Board of Regents:

Requirements for Eligibility to Membership in the
American College of Dentists

BASIC CONSIDERATIONS

1. Educational. The pre-professional and professional training of the
nominee must be acceptable for the period obtaining.

2. Organizational. The nominee should hold membership in the major
organizations of his profession.

3. Instruction and Teaching. The nominee should have evidenced a
readiness at all times to give freely to dental colleagues, privately or publicly,
the benefit of any knowledge or experience that may be useful to them.
Courses of instruction for remuneration should be given only as an appointed teacher serving under the auspices of a dental school, dental society, hospital or other accredited professional or educational agency.

4. Professional Ideals. The nominee must possess the highest professional ideals, and uphold constantly the honor and dignity of the dental profession, as well as meet his ethical obligations to his patients, fellow practitioners and society at large. (This positive expression of ideals naturally precludes a negation by such practices as discredit the profession, including employment of, or holding a proprietary interest in, commercial corporations supplying the dental products or services to either the profession or the public; giving testimonials for such products or services; participating in radio programs that advertise proprietary preparations; bartering in fees; making charges without rendering commensurate services, dividing fees with other health service practitioners, or in any other way taking advantage of the uninformed).

SPECIFIC CONSIDERATION

Beyond the basic qualifications, the nominee must have made contributions to the advancement of his profession and its public appreciation in such a way to merit recognition by the American College of Dentists. Such contributions may have been made in the field of activity worthy of consideration but, whatever the field, the genuineness and quality of contributions are of greater interest than nominal posts or appointments. Thus all nominations should be supported with full particulars in those areas in which the nominee has won distinction, that they may be reviewed, if desirable, to determine quality. For instance, if nominated as a writer, a bibliography of the published articles of the nominee should be supplied; if nominated as a teacher, some description of his contributions should be given rather than the information of mere appointment to a teaching staff; etc.

The American College of Dentists recommends and supports the principle that the journalism of the dental profession should be under control of the profession. It is expected that individuals being considered for fellowship shall subscribe to this principle.

It is unfortunate that there are still some who feel that these basic qualifications should be waived for a candidate, who may offer little in the way of qualifications other than “being a good fellow.”

On the other hand, there are many nominations that do not do justice to the nominee, simply because the nominator did not go to the trouble of listing the details of his qualifications. Comment by
the present Chairman of the Board of Censors will throw much light upon some of the problems of that Board:

"It is unfortunate when a nomination is received, where the nominator has not seen fit to give the necessary time to acquire the detailed information that would make such a nomination immediately acceptable. Details rather than generalized statements are necessary for proper evaluation. All questions should be filled out so that a complete picture may be had.

"When statements are made about the nominee’s contributions, the details provided should support these statements.

"Members should nominate only those persons who have made contributions to the advancement of the profession and should hesitate to nominate persons who, though apparently active in the profession, are in reality only thinking of themselves rather than the profession. The ideals that have been set down in the requirements for Eligibility to Membership should be reviewed when a nomination is contemplated.

"The task of the Board of Censors can be made much easier and its procedures expedited, if thoughtful consideration will be given to the purposes and objectives of the College, when a nomination is contemplated."

THE BOARD OF REGENTS

The Board of Regents consists of the officers and five elected Regents. Officers are elected annually. A Regent is elected for a period of five years.

The Board is the governing body of the College. The By-laws prescribe its duties as follows:

"The Board of Regents shall conduct the business of the College except as otherwise provided."

MEETING OF THE BOARD OF REGENTS

The Board of Regents normally holds two meetings each year. Their annual meeting is held at the time of the American Dental Association meeting. Their interim meeting is held at the time of the Chicago Mid-Winter Clinic meeting. All members of the Board attend the meeting at their own expense.

THE BOARD OF CENSORS

The Board of Censors is a Board of 5 persons, selected by the
FACTS ABOUT THE A.C.D. AND ITS ORGANIZATION

Board of Regents and known only to this Board. Each member serves for a period of five years but no more.

The Board holds at least one meeting each year, at some central location and not in conjunction with a dental meeting. In addition, year round, correspondence keeps members of the Board fully informed.

The members of this Board are reimbursed for expenses incurred in their meetings.

The Secretary of the College is the contact man between the Board of Censors and the Board of Regents as well as the members at large.

SECTIONS

According to the by-laws, Sections of the College may be organized in geographical centers, to support and promote locally, the aims, purposes, functions and ideals of the College.

To be accredited as a Section, a local organization must adopt by-laws for its government in harmony with the principles of the Constitution and By-laws of the College, as determined by the Regents. There are at present the following Sections:

(1) Kentucky (11) Illinois
(2) Northern California (12) St. Louis
(3) Maryland (13) Oregon
(4) New York (14) Texas
(5) Minnesota (15) Florida
(6) New England (16) Indiana
(7) Wisconsin (17) Washington, D. C.
(8) Colorado (18) Southwestern
(9) Pittsburgh (19) New Jersey
(10) Iowa (20) Kansas City Mid West

ACTIVITIES OF SECTIONS

With several exceptions, the Sections, to date, have done little to aid in the study work of the College. Their meetings have been mostly business meetings. A few have had special programs and several have attempted to carry forward some of the committee work of the College.
During the emergency, the Sections functioned exceedingly well in the conferring of Fellowships for the Board of Regents.

For a number of years, the Board of Regents took the position that it would be more desirable for the Sections to develop their own plans for carrying forward the objectives of the College. Later, it was suggested that they interest themselves in the committee activities of the College. Last year, special assignments were made to the Sections in the hope that greater interest would manifest itself. It is hoped that these steps will prove fruitful for there is much work to be done in which Sections can be very helpful.

COMMITTEE STRUCTURE

At the present time we have the following committees:

Standing: Certification of Specialists; Education; History; Hospital Dental Service; Journalism; Necrology; Nominating; Oral Surgery; Preventive Service; Prosthetic Dental Service; Relations; Research; Socio-Economics.

Special: Ad Interim; Budget; By-Laws; Ceremonial; Ethics; Journal; Dental Student Recruitment.

With the exception of the Nominating Committee, all Committees are appointed for one year, subject to re-appointment if activities warrant.

Up to the present time these committees have been the life blood of the College activities. They have labored long and well to set up and maintain standards and ideals which might have been lost, or delayed in their adoption, save for the splendid efforts of our committeemen.

Some way must be found to utilize the great talents within our membership toward efforts and accomplishments similar to those of our committees, past and present.

METHODS OF SERVICE

It is not the desire of the American College of Dentists to shout from the house tops its accomplishments. Rather, it prefers to work quietly toward its goal, many times preferring to urge others on rather than step forward to take credit itself. On the other hand,
FACTS ABOUT THE A.C.D. AND ITS ORGANIZATION

it has not hesitated to stand and fight for principles when these principles or standards are threatened.

A review of its activities indicates that the eyes of the College have always been on the goal its founders set for it as outlined in its Objectives.

SOME OF THE ACHIEVEMENTS OF THE AMERICAN COLLEGE OF DENTISTS

Dental Education: Early in the life of the American College of Dentists, it became a potent force in guiding the educational standards of the profession. The life of the College since its organization in 1920, parallel the developments in the field of dental education during that period. On several occasions, when storms threatened, the American College of Dentists stepped boldly forward and carried the banner. Its sustained interest in dental education is indicated by this morning’s program.

Prosthetic Dental Service: For many years the Committee on Prosthetic Dental Service studied, consulted, reported and published its reports. Finally, the American Dental Association saw the need of taking hold. As it did so, the College committee withdrew and became the watch-dog of further developments.

Certification of Specialists: This committee has nearly finished its work. It has studied its problems over many years. The Council on Dental Education has now taken over, and the committee steps aside to watch developments.

Development of Research: The Committee on Research has done a fine job in bringing to the attention of individuals, organizations, corporations and the government, the need for research and grants-in-aid. Through several committees, $23,544.66 of College funds have been expended in grants-in-aid and Fellowships. Now that the need has been demonstrated, other agencies will, no doubt, come forward with the needed help.

A report by the Secretary of the Committee on Research on the result of contributions made by the College is very significant. He says: “From a total expenditure of $10,586.65 for Grants-in-
Aid and Fellowships, over a period of 6 years, twenty-six articles on research have been published. This would be an average cost of $407.18 per publication, with others to follow. Foundations are pleased with results when the cost is two or more times as much."

A dean of one of the dental schools reports, that as a result of one of the published articles, a layman asked the privilege of contributing a substantial sum to his school to carry on dental research.

*Journal of Dental Research*: The College has been an ardent supporters of the *Journal of Dental Research*. For many years it made an annual contribution toward its expenses. It encouraged the establishment of the Endowment Fund for the *Journal* and contributed $5000 to this fund.

*Socio-Economics*: In 1928 the American College of Dentists agreed to finance a study of health insurance in Europe and assigned to Dr. Nathan Sinai the task of making the study as a special contribution to the work of the Committee on the Cost of Medical Care. The result was Dr. Sinai's report, a book entitled "The Way of Health Insurance."

Subsequently, under the direction of the Committee on Socio-Economics, a study was made of the cost of dental care for adults from records in a pay-clinic in New York City. The result was a publication by Dorothy Fahs Beck, under the title "The Cost of Dental Care for Adults." This work has done much to crystalize the thought on this subject and is a distinct credit to Mrs. Beck and the American College of Dentists.

*Journalism*: The Commission on Journalism was appointed in 1928 and the Commission and Committees appointed since that time have directed attention to the journalism of the profession as no other force could have done. The personal arguments are to be regretted but the advancement that has taken place since the first report, justifies the efforts. The goal has not yet been reached, but is being approached. The near future will see many fruits of the efforts put forth.

*Oral Surgery*: The Committee on Oral Surgery has labored year
FACTS ABOUT THE A.C.D. AND ITS ORGANIZATION

in and year out to elevate its services. It now sees the result of its labors, in the unified effort from all sources toward the establishment and functioning of the Board of Oral Surgery.

_Hospital Dental Service_: This Committee, too, labored long and well and now sees the results of its labors in the establishment of Standards for Dental Internships and Residencies and Hospital Standards for dental services.

These are some of the things for which the American College of Dentists can take credit, but rather it elects to continue to give of its time and efforts without the blare of trumpets or the desire for publicity. It is merely striving to reach its objectives as set down at the beginning. Its efforts are in the interest of the dental profession as a whole, and the public which the profession serves.

**SPECIAL CONTRIBUTION**

Mention should be made that the American College of Dentists was a staunch supporter of the celebration of Dentistry’s 100th Anniversary. When hopes were dim, it came forward with the support in funds and above all, its talents.

It was through the American College of Dentists that Dentistry was recognized by the American Association for the Advancement of Science. It used its influence to obtain recognition for the profession of dentistry, even in the face of indifference on the part of certain officers of the American Dental Association at that time.

Recently the American College of Dentists published extensively the work of Horace Wells, so that future generations might have a clearer concept of the life and contributions of this benefactor of humanity. It presented special bound volumes on Wells’ life to the committee considering candidates for the Hall of Fame at New York University, and while Wells was not named, the records will stand un tarnished for future historians to evaluate.

Thus, the American College of Dentists lends its support and gives of its efforts to projects worthy of such support and efforts. Its committees work day in and day out, far into the night, to push the frontiers of dentistry forward.
MEETINGS

Normally, the American College of Dentists holds one convocation each year, usually at the time of the American Dental Association. At that time it confers Fellowships. At that time, also, it attempts to summarize its year's activities for the benefit of its members.

Its ceremonial is an impressive occasion. An occasion when those present consecrate themselves anew to carrying the banner of the dental profession ever forward and lift it to the highest pinnacle of health-service.

For those who cannot attend, the Journal of the American College of Dentists carries the proceedings. It publishes within its pages, messages of inspiration and urges its readers to join the crusade for better dental health service.

SECTION REPRESENTATIVES' MEETING

Normally, the Representatives from the Sections meet with the Board of Regents yearly, usually at the time of the Chicago Mid-Winter Clinic meeting, to discuss the activities of the College and bring to the committees and the Board of Regents their impressions and desires.

THE FUTURE

Such, in brief, is the structure of the organization known as the American College of Dentists. Such, too, are the ways and means which this organization has used and is using, to gain its objectives, none of which clash with the best interests of dentistry, but are identical with it.

It urges its Fellows to pledge anew support to its objectives, as a force for greater achievement and more rapid advancement of dental health services.

In the days ahead, there are still many needs for efforts such as ours. Dental Education in all its forms, dental literature, dental practice, the importance of dental health, public appreciation of dental health, the need for high type men in dentistry, research,
caries control, dental care for an ageing population, the development of a better medico-dental relationship, prevention in dentistry, the expansion of our services to greater numbers, the use of auxiliary services—these are but a few of the problems which challenge our imagination and command our attention. We have the talent and the strength to solve these problems through united efforts.

The American College of Dentists confers fellowships in recognition of meritorious achievement. It expects each member in return to—

Promote the ideals of the dental profession
Advance the standards and efficiency of dentistry
Stimulate graduate study and efforts by dentists and,
Improve public understanding and appreciation of oral health-service.

To this end, we dedicate ourselves again today.
A LETTER TO THE EDITOR

The following letter was received by one of our members who occupied a certain position among the officers, or those having to do with the immediate work of the college. It may sound like an apology which would indicate negativism. This is not true. While the writer may not have done all that he might have desired, he is by no means suffering from introspection, but rather he is taking this method of replying to the editor’s request for a story and of emphasizing to our readers exactly the opposite. (Ed.)

Dr. John E. Gurley,
Editor, JOURNAL OF THE AMERICAN COLLEGE OF DENTISTS,
350 Post St.,
San Francisco 8, Calif.

Dear John:

I was deeply moved by your second letter entreating me to send a story for the last issue of the JOURNAL which you will prepare as Editor. I must not neglect this letter as I did the previous one, but the conditions are just the same in that I can’t think of anything that will make a story.

Let us just examine the record of this individual as a ————:

He was first appointed as ———— ————, in which capacity he failed to accomplish much. He offered some suggestions of an organizational character but got nowhere in any ———— duties. Subsequently this individual was appointed ———— ———— where he “contributed” a portion of a ———— along with the other ————. He was solicited for additional ———— but failed to submit any.

This is an exceptionally poor record and reflects little credit upon this person.

Suppose all of the members of the ———— ———— were as unproductive as he, what kind of ———— would result?

Wouldn’t it be a good idea to drop such an unproductive individual from the ———— and replace him with better material? After all, the ———— can’t do everything himself and should have some helpers on whom he can depend.
Carry this situation over into other activities of the College to see what could happen there. If the members of the Standing Committees should fail to do their work, production would practically stop in the College, since the Standing Committees constitute the principal working parts of the College. That outstanding piece of work on the Costs of Medical Care (1932); the more recent intensive study “Dental Care of Adults,” 1943; the voluminous report on the survey of Journalism in 1928-31; the magnificent development of Hospital Dental Service and the Prosthetic Service studies—all of these were done by interested Standing Committees. It is a record deserving of the highest praise and appreciation. Such men as Palmer, Rudolph, Wright, Miller, Archer and Gies did not falter over a project to be done: they put both shoulders to the wheel and wrought out results by persistent and intelligent effort.

One, like your correspondent, the faulty ———, may be lacking in essential intelligence but he could certainly be expected to make a persistent effort.

At the present time the President and Board of Regents are interested in having the Sections take hold of some assigned projects and go to work on them. Such a program may be calculated to increase the productivity of the College in quite a large measure by putting a multitude of shoulders to a diversity of wheels, large and small, minor and significant, and located in most of the important centers in the nation.

The potentialities of such a program challenge the imagination, for in the section membership is no lack—nay there is really an abundance—of intelligence. It must be so because the achievements and professional standing of the members along with the care exercised in their selection should amply guarantee that fact.

Granting that the Sections contain an abundance of intelligent and experienced men, there naturally arises the question of their willingness to make the persistent effort necessary to accomplish the work they are capable of doing.

To my mind, John, that question need not even exist. There
can be no doubt that those grand men are willing to do everything they can to foster and promote the welfare of dentistry because of their fundamental humanitarianism. They are busy men, but always are willing to work. Now, each College section has a fine group of men, intelligent and willing to work. Do the College sections produce a volume of material commensurate with the personnel available? If they do, how is the material utilized? What becomes of it, or how is it used by the College? If the sections are not productive, if nothing of value develops in them, how can such a condition exist, and why is it permitted to continue?

Could the condition be attributed to indifference on the part of the members? It does not seem to be reasonable that a selected body of men who are intelligent and willing to work would be indifferent to an opportunity to contribute a portion of their time and energy for the welfare of the profession through which they serve humanity. Indifference is not a part of the make-up of such men.

It must be that the machinery for utilizing the talent in the sections does not function properly or is not constructed properly. It is a problem of organization which needs correction in order to develop the latent resources now dormant in the sections.

I am afraid you will say this is bold speaking from a —— who has not been an asset to the ——, but it is a fact that the sections have been stymied by the confusion regarding their function and the lack of an outlet for their products. The appetite for production is soon dulled and sated when no use is made of the material created.

John, this letter is already much too long, but it occurs to me that it may be a good idea for you to include in your swan song—no offense, I mean your final issue—a bit of a plea to the members, that each examine his conscience, asking “Am I doing as much as I could for the College and for dentistry?”

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Cordially yours,
The program of the 1946 Boston Meeting of the Subsection on Dentistry consisted of a symposium on “Biologic Aspects of Periodontal Disease.” The participants were outstanding workers in their respective fields and the papers were prepared on invitation from the program committee.

Dr. Howard J. Marjerison was chairman of the local committee and Dr. L. M. S. Miner was the local committeeman.

A capacity audience attended the sessions which were held in the Statler Hotel. Twelve papers were read during the morning and afternoon sessions. The evening program was devoted to a Round Table Discussion on Current Research Problems in Periodontal Disease.

Guest members of the audience included Dr. F. R. Moulton, executive secretary of the A.A.A.S.; Dr. A. J. Carlson, past president of the A.A.A.S., and Dr. James B. Conant, president of the A.A.A.S. and president of Harvard University. The latter addressed the meeting on “The Long Range Values of Research.”

The entire symposium will be published in the September and October issues of the International Journal of Orthodontia and Oral Surgery.

The papers of the Symposium held at the Cleveland meeting, September, 1944, were published in a second dental monograph of the A.A.A.S. series. While the 1941 Symposium of the Subsection on Dentistry, “Flourine and Dental Health,” published in 1942 covered the early history of the relations between fluorine and dental caries particularly in this country, the new symposium published in 1946 under the title “Dental Caries and Fluorine” includes chemical studies of teeth subject to dental caries and of those which
have been immune to caries; discussion of the way fluorine inhibits dental decay; and reports from the British Isles, India, South Africa, as well as the United States. This monograph can be purchased through the Washington office of the American Association for the Advancement of Science, 1515 Massachusetts Avenue, N.W., Washington, D.C.

The next meeting of the Subsection on Dentistry of the American Association for the Advancement of Science will be held in Chicago, December 28, 1947, at the Sherman Hotel. The local committee consists of Dr. J. R. Blayney, Chairman, Dr. L. S. Fosdick and Dr. I. Schour. The program will be devoted to a symposium on "Dental Caries." (See p. 176, Sept. issue.)

Following are the abstracts of the papers presented at the Boston meeting:

I

Histopathologic Aspects of Periodontal Membrane

BALINT ORBAN, M.D., D.D.S.

Pathologic conditions of periodontal diseases may be discussed under two headings: General pathology and special pathology. From the point of view of general pathology, the following conditions may be found:

1. Inflammation of various types.
2. Circulatory disturbances.
3. Degenerative processes.
4. Atrophy.
5. Hypertrophy and hyperplasia.

These pathologic conditions are associated with typical clinical pictures in periodontal diseases and knowledge of them is most important to the practitioner.

Special pathology considers disturbances involving the supporting tissues of the teeth that are not found elsewhere in the body, or disturbances occurring as a result of special functional alterations characteristic of the teeth. Examples are pathologic features
leading to deepening of the gingival pockets, migration of the epithelial attachment along the surface of the root and the pathologic changes known as "traumatism" resulting from occlusal trauma.

II

THE NATURE AND SIGNIFICANCE OF INFECTION IN PERIODONTAL DISEASE
THEODOR ROSEBURY, D.D.S.
New York

Among many questions concerned with the etiology and pathogenesis of periodontal disease, those dealing with the nature and role of infection are probably no less obscure than others, although bacteriological studies have been relatively neglected. Infection appears to be a contributing cause of periodontal damage. A mixture of microorganism, apparently representing a proliferation of the indigenous gingival flora beyond normal bounds, and varying in degree more than in kind, is characteristic of periodontal pockets. Elements of this mixture are similar to those typical of fusospirochetal infections of the mouth and other mucous membrane and cutaneous areas. From whatever disease in man this mixture has been derived, including periodontal disease, it has been found capable of producing in normal animal tissues a consistent pathological pattern which includes suppuration, necrosis and a putrid exudate. These changes are serially reproducible by inoculation of exudate. It appears clear, therefore, that certain of the microorganisms of periodontal pockets are potentially pathogenic; and it is likely that they contribute to the symptomatology of periodontal disease in man. The relative importance of their contribution, the manner in which infection becomes operative in response to such predisposing causes as local tissue damage, and the significance of periodontal infection in the production of local and systemic effects, are among the questions for future research.
A method was presented for routine isolation and cultivation of the smaller oral spirochetes. The technic is based on the use of a well for holding a large inoculum in the confines of a highly nutritious medium of low agar concentration, which favors rapid multiplication and penetration of the medium by the spirochetes. The wall of the well serves as a filter through which the spirochetes may grow and become isolated from the contaminants. The possibility of splitting of the agar by troublesome gas-forming bacteria is extremely remote as they remain in the confines of the well and the gas formed escapes harmlessly into the container. Transfers are made by removing a plug of spirochetal-infiltrated agar through the free sterile surface by means of a capillary pipette. In addition, three strains of oral spirochetes morphologically similar to *Borrelia vincentii* have been isolated by a modification of this method.

The cultured strains of oral spirochetes were shown to be devoid of pathogenicity for laboratory animals, therefore, studies were undertaken to develop a serological test that could be utilized in determining the etiological significance of those organisms in Vincent’s infection. Fifteen strains of spirochetes were employed for agglutination studies; eight strains of the smaller oral treponemes, three strains of *Bor. vincentii* and four cultured strains of *Treponema pallidum*. Media and technics were devised both for mass cultivation of the organisms for intravenous inoculation of rabbits and for use as antigen in performing microscopic agglutination reactions. The various strains of oral spirochetes and strains of *T. pallidum* were shown to be highly antigenic. The agglutination titres of immune serums of rabbits when tested against homologous strains of spirochetes ranged between 1:1,000 and 1:1,000,000.
IV

Psychosomatic Factors in the Etiology of Periodontal Disease: A Critical Review of the Literature

SAMUEL CHARLES MILLER, D.D.S. AND JULIAN M. FIRESTONE, D.D.S.

New York

The war years have produced an abundance of cases of periodontal disease in both civilian and military population for which one of the important etiological factors is emotional tension. Even in necrotic gingivitis (Vincent’s infection), emotional factors play a major role in causation. Since the present stress of living is developing even greater difficulties of psychologic adjustment, it is reasonable to expect that the number of such cases coming to the attention of the dentist and the physician will continue to increase.

Three important means by which psychosomatic factors operate are discussed, viz. (1) Emotional disturbances creating oral disease, (2) Oral changes inducing mental ills, and (3) By far the greatest majority of cases are those in which the vicious circle operates with greater or smaller percentages of each factor.

Eight ways in which periodontal diseases may be created by psychic disturbances are discussed, namely:

(1) Reduction of local nutrition through vasospasm.
(2) Development of objective habits which are antagonistic to the health of the periodontal tissues, e.g. pencil biting, fingernail biting.
(3) By inducing excessive chewing, clenching, or grinding.
(4) By creating taste perversions causing the ingestion of foods which are locally and systematically harmful to periodontal health.
(5) By permitting insufficient food intake through limitation of gastrointestinal function.
(6) By producing neglect of oral sanitation.
(7) By evolving subjective habits which are harmful to the periodontal structures, e.g. lip biting, cheek biting, tongue thrusting.
(8) By causing bodily conditions inimical to the health of the periodontal tissues.

The modern dental practice must include the consideration of psychosomatic factors, if it is to render a complete health service.
Survey of the literature indicates that the physical character of
the diet bears significant relations to the health of the periodontal
tissues. The evidence further supports the view that thorough
mastication of hard detergent foods tends to maintain the health,
and the reserve capacity of the gingivae, periodontal membrane, and
alveolar bone.

The weight of existing evidence points to the conclusion that
the mechanical displacement of fluids in vascular and lymphatic
channels constitutes the major physiologic response to massage. That
this response occurs, and that it is beneficial appears to have the
support of a large number of authorities in the field of physiology,
and physical medicine. Within physiological limits the alternate
constriction, and dilatation of the vessels of the gingivae and peri-
dontal membrane resulting from mastication or massage give rise
to normal and beneficial tissue reactions. There appears to be no
dissent on the point that the response to excessive pressures, or to
lack of function is similar to that occurring in vessels of other parts.

The relation of the physical character of the diet to the thickness
and degree of hornification of gingival epithelium appears to be
well established. Apparently hornification does not occur in the
oral mucous membrane to the same extent as on the skin. Under
normal conditions this is due to the fact that the oral mucous mem-
brane is moist and is protected by saliva.

It is well established that the thickness of the periodontal mem-
brane varies as a result of function. It would seem that in healthy
individuals the organization of the suspensory structures of the
periodontal membrane, being capable of adjustments to alterations
in function, may be taken as an index to the physical character of
the food used, and to habits of mastication. Other factors (occlusion, health, muscle tone, etc.) being equal, the individual with the most vigorous masticatory function would have the most resistant membrane. Furthermore, such individuals would be likely to express the greatest biting strength.

The periodontal membrane limits the masticatory pressure which may be applied with comfort and safety. As a consequence it would appear worthwhile to consider that (a) the thresholds of comfort and safety may be raised with increase in the density or toughness of food, (b) that these thresholds may be lowered by soft foods, and by disease of local or systemic origin. The most significant determinants with regard to the resistance to stress which should exist in the periodontal membrane, are (a) the diet which is assumed to be satisfactory, (b) the physical state of the dietary components, and (c) the degree of comminution which is thought to be essential. The ideal perhaps would be sufficient strength to resist the stresses arising from mastication of a proper diet, and to provide a reserve capacity for the purpose of supporting occasional, and sudden overloads. It may be that this reserve capacity is often lacking, or at a low point in the periodontal membrane of civilized people.

VI

EXPERIMENTAL DIABETES AND THE PERIODONTAL STRUCTURES

IRVING GLICKMAN, D.D.S.

Boston

A histological study was conducted in one hundred and twenty-one albino rats to determine the effect of experimentally induced diabetes upon the periodontal structures. Diabetes was induced by subcutaneous injection with a 5 per cent aqueous solution of alloxan in a dosage of 200 mg/kg of body weight. Blood sugar levels were regularly determined in all the animals.

Subcutaneous injection with alloxan produced hyperglycemia, pancreas disturbances and symptoms comparable to those which occur in human diabetes. In 25 animals no hyperglycemia or apparent diabetes followed injection with alloxan. The seventy-eight
diabetic animals could be divided into an acute and chronic group in the basis of survival beyond the initial acute stage which in 45 cases terminated in death after an average of only 3.6 days. The experimental period in the chronic group ranged from 3 to 32 weeks.

The mandible, maxillae, tibiae, ribs, vertebrae, pancreas and kidneys removed at the termination of the experimental period were examined microscopically.

In the periodontal structures, no notable pathological changes were observed in the animals which succumbed after a brief acute response to alloxan or in the animals in which there was no response to injection with alloxan.

The following conclusions regarding the periodontal structures of albino rats with experimentally induced chronic diabetes were established by the findings: (1) The nature and incidence of gingival disease are not peculiarly altered in diabetes. (2) A tendency toward varying degrees of non-specific osteoporosis of alveolar bone is a feature in individual cases of diabetes. (3) In diabetes, severe changes generalized throughout the alveolar bone are accompanied by comparable alterations in other bones of the skeletal system. (4) In individual cases of diabetes the alveolar bone may present no significant alteration. (5) In diabetes, hyperglycemia and pancreas changes are not associated with osteoporotic bone tendencies in a specific cause and effect relationship. (6) Notable pathological changes in the periodontal membrane or cementum are not associated with diabetes.

VII

**Estrogen Implants in Female Dogs**

*(Preliminary Report)*

DANIEL E. ZISKIN, D.D.S., EDWARD V. ZEGARELLI, D.D.S., and CHARLES SLANETZ, Ph.D.

*New York*

This was a study to test the effects of estrogen implants (alpha-estradiol) in dogs. The main interest centered about the oral tissue, although other organs were observed as well. Gross and microscopic
examinations were made, and complete blood counts and pertinent blood chemical analyses were included. Twenty-one females comprised our group. Thirteen dogs received implants of alpha-estradiol subcutaneously. Three dogs received the estrogen implants and in addition were given 3 grams of soy bean lecithin daily incorporated into their diet. Three dogs received estrogen implants, only, for several months, then 3 grams of lecithin were added to their daily diets, 28 days before the termination of the experiment in two instances and 12 days in one instance. Two controls, living under conditions identical with the rest of the group but without estrogen implants or lecithin. The average duration of the experimental procedures was 7 months. The average total dosage of alpha-estradiol over the entire period was 80 mg. All animals received implants at least twice, and some as many as 5 times. The average absorption was about 170 micrograms a day. Blood counts showed a drop in the number of red blood cells and the white cells after an initial rise. The hemoglobin showed the least change. The skin changes consisted of alopecia; a scalydermatitis, located chiefly on the exposed surfaces of the joints of the forelegs and hindlegs, somewhat resembling psoriasis in man; scabs between toes; and scaly sores generally over the body. Gingivae revealed an inflammatory necrosis characteristic of agranulocytic angina in man. Uterus presented necrosis involving the endometrium, the myometrium or perforations. At autopsy, it was found that the most severe necrosis had developed in the uterus. The gingivae were the next most seriously involved and then the vagina. The most severe blood affection seen was a marked leukopenia. Those animals receiving the soy bean lecithin were in some degree protected against the toxic symptoms. Although skin lesions developed, they came on later in the experimental period and were not as severe. The lecithin seemed to afford the most protection to the uterus.
The lesions of specific B vitamin deficiencies can be so severe as to cause rapid loss of weight and early death in experimental animals. In contrast to these destructive effects upon animals, vitamin deficiencies in humans are ordinarily thought of as chronic disturbances. Purified diets, composed of known substances such as synthetic vitamins, etc., in which only a single known factor is deficient will in many instances produce more severe lesions than will a multiple deficiency. At first thought the B vitamins, of which ten are known and others suspected, are closely associated in their function because of the similarity of a few of their chemical properties. The antidermatitis power of the B vitamins is one of their most prominent properties. Under experimental conditions destruction of paradental tissues, marginal alveolar atrophy, and severe inflammation result from niacin deficiency. Necrosis of oral epithelium, subsequent destruction of underlying soft tissue, marginal atrophy, and a contrasting lack of inflammatory response is found in pantothenic acid deficiency. Disturbances of dental growth, bone trabecular distribution and bone marrow result from pyridoxine deficiency.

Health of the periodontal tissues depends on maintenance of the epithelial attachment of the gingiva to the tooth surface, as well as on the ability of the collagenous and bony attachment tissues to withstand masticatory stress. Vitamin A deficiency in laboratory animals is frequently accompanied by accumulation of cornified epithelial cells in the gingival sulcus and the development of perio-
dental "pockets" at a considerably younger age than occurs in normal control animals. Hyperkeratosis of the gingival epithelium, increased numbers of bacteria growing in epithelial debris, and impaired salivary secretion are possible contributing factors to pocket formation but the relative role of each has not been determined. Retardation of bone growth and remodelling is a specific effect of deficiency of vitamin A. In acute experiments in albino rats where the deficiency becomes manifest before the molar roots are fully formed there is resultant deformation of the tooth roots and narrowing of the periodontal membrane. Failure of the alveolar bone to withstand functional stress is evident.

Clinical studies to determine the role of vitamin A lack as a factor in periodontal disease (pyorrhea alveolaris) are few in number and inconclusive. The adult human being usually stores large quantities of vitamin A, chiefly in the liver. Since periodontal disease is more common in older individuals the presumption is against association with vitamin A deficiency. Nevertheless, there is considerable evidence that under a variety of conditions the vitamin A stored in the liver may not be utilized to meet the needs of body tissues. Therefore, the relation of vitamin A deficiency to periodontal disease in human beings requires further investigation.

X

PERIODONTOSIS IN THE SPIDER MONKEY
(A Preliminary Report)
HENRY M. GOLDMAN, D.D.S.
Boston

INTRODUCTION

The purpose of this preliminary report is to describe the histopathologic changes in the jaws of two spider monkeys affected with a similar condition to that of human periodontosis.

MATERIAL

This study was made on the jaws of two spider monkeys (Ateles Geoffroyi) which originally belonged to a group of twenty-five
animals used for behavior and nerve regeneration experiments. These monkeys were kept in a large enclosure and were fed exclusively on waste, fruits, and vegetables. During the experiment the monkeys became infected with amebic and bacillary dysentery. Six died and in all cases showed ulcers of the stomach or intestine, in most cases with perforations. The two jaws studied came from the last group mentioned. The jaws were examined clinically, radiographically, and microscopically, the clinical observations being augmented with information of the monkeys while they were alive.

**CLINICAL FINDINGS**

One of the initial symptoms noticed was migration of the teeth, manifesting itself by either extrusion or lateral movement; another was loosening of the teeth. Clinical examination of the jaws showed the gingivae rather pink and smooth, no hyperplasia being noted; however, all degrees of pocket formation were encountered. Both firm and loose teeth were found, some being almost exfoliated. X-ray examination disclosed similar characteristic findings to that of human periodontosis. Widening of the periodontal space varied, some teeth being markedly affected while others were not. The widening could be found localized to one surface of the tooth or encircling the entire tooth root; in some instances it was seen in the marginal periodontal area showing up as a cone-like radiolucent area.

**HISTOPATHOLOGY**

The periodontal membrane showed the main changes of this disease. The early alterations appeared as a loss of the functional structure of the periodontal membrane, the principal fiber apparatus becoming disorganized and degenerated, finally becoming a loose edematous connective tissue. An increased number of capillaries and edema of the tissue were constant findings. The change could be found localized in relatively small areas of a periodontal membrane and in other instances affecting the entire structure. Migration of the teeth was a constant finding and was due to the destruction of the periodontal membrane, causing a pull to be exerted by a
remaining intact attachment of the other side of the tooth. This movement was also aided by the increased pressure of the edema and proliferation of capillaries on the side affected. Thus migration of a tooth always occurred in the direction away from the affected side. If the degenerative process affected the entire periodontal membrane, extrusion resulted. Pocket formation was found only in those areas where the degenerative process of the periodontal membrane occurred in the marginal area.

The alveolar and supporting bone were of considerable interest in that the changes found were due to secondary factors rather than a primary loss. After the loss of teeth, bone regeneration was active in the sockets; osteoblastic activity was noted and a rim of osteoid could be seen around newly formed bone.

XI

GINGIVAL DISEASE (GINGIVOSIS) IN HOSPITALIZED CHILDREN IN NAPLES (1945)

ISAAC SCHOUR, D.D.S., and MAURY MASSLER, D.D.S.

Chicago

During the course of investigations conducted by the Italian Medical Nutrition Mission, a peculiar, degenerative form of gingival disease was observed in 40% of 221 malnourished, hospitalized children in postwar Naples (1945). Since the disease appeared to affect the gingivae primarily and because the inflammatory reaction appeared to be secondary, it was termed gingivosis.

INCIDENCE

The disease occurred more frequently in the age group 2½ to 6 years (59.1% affected) than in the older age group (7 to 14 years 25% affected). It was rarely seen in non-hospitalized children and was not seen at all in patients over 21 years of age.

COURSE

The course is acute and fulminating and passes through repeated cycles. During the acute stage it resembles a Vincent’s infection and during certain end stages it resembles the periodontosis (pyorrhea)
of the adult. However, it does not seem to be either a Vincent's infection or a true periodontosis.

**INITIAL STAGE**

The disease begins insidiously as a low-grade edema of the interdental papilla which spreads very rapidly into the gingival collar and then extends more slowly into the attached gingivae.

**ACUTE STAGE**

The second stage is ushered in suddenly with a venous engorgement of the affected gingivae which bleed spontaneously and profusely. This stage ends after about three or four weeks with a complete necrosis of the affected gingivae.

**CHRONIC STAGE**

The necrosis and loss of the affected gingivae results in a marked recession of the gingivae and denudation of the root of the tooth. The clinical impression is that the disease is of a degenerative rather than an inflammatory nature.

**THERAPY**

Systemic therapy with large doses of ascorbic acid, vitamins A and D or riboflavin, singly or in combination, had no apparent clinical effect on the course or severity of the disease. Therapy with large doses of niacin or pyridoxin resulted in distinct and often dramatic clinical improvement. On the basis of its response to niacin or pyridoxin therapy, the evidence points to a primary nutritional deficiency as the basis for its inception or course.

Since the evidence points toward the degenerative and systemic nature of the disease rather than to an inflammatory and local condition, the term *gingivosis* is proposed to designate this condition.
Oral, Gingivival and Periodontal Diseases Induced in Rats Under a Low Pantothenic Acid Diet with the Addition of Zinc Carbonate


New York

A group of seventy-five rats were fed synthetic diets in order to test the effect of zinc poisoning on suboptimal pantothenic acid diets.

Weanling rats weighing 40 oz.-3 grams were chosen. Forty-seven of these were fed a synthetic diet complete in every respect but suboptimal in pantothenic acid (about ¼ minimum requirements) and containing 0.8% zinc as zinc carbonate; eighteen served as litter mate controls; an additional ten rats served as total pantothenic acid deficiency controls. The oral cavities of most of these were examined at frequent intervals and forty-three of the entire group were studied histologically.

Ulcers were found mostly on the dorsum of the tongue close to the mid-line, between the tip and the posterior region; occasionally, they were present on the undersurface; they also occurred in varying locations on the inner surface of the cheek and on the palate.

The pathological changes consisted of hyperplasia of the keratin layer in some areas and necrosis with ulcer formation in others. The ulcers had no typical location and hyperkeratinization was found alone or in combination with ulcers. The ulcers, in early stages showed slight necrosis of the epithelium with a larger area in the lamina propria extending into the muscles. Their origin appeared to be in the dermal core. The ulcers were characterized by granular disintegration of the tissue so that no cell structure could be distinguished with certainty, both the epithelium and connective tissue being involved. The necrotic mass was sharply delimited, surrounded by prickle cells with pyknotic nuclei and connective tissue free of cellular reaction. The lack of cellular reaction was typical in the early stages, but when the ulcers enlarged cellular infiltration occurred.
Characteristic changes were observed in the interdental papillae and the alveolar bone which in its severest forms led to extensive destruction of the periodontal structures.

The least amount of periodontal involvement manifested, consisted of necrosis of the tip of the interdental papillae. The epithelium and the lamina propria of the tip of the interdental papillae were necrotic; the necrosis consisted of the same acellular granular disintegration as was observed in the tongue. No cellular reaction could be seen in the connective tissue.

**Membership Roster**

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DENTAL EDUCATION: OBJECTIVE AND PURPOSE

Continued from March, June, and September issues of the Journal; pp. 37, 72, and 154, respectively; reference may be made to pp. 7 and 12 of the March issue for further details. We hope to continue with schools of other countries in subsequent issues of the Journal. (Ed.)

Presentation of schools of the United States (Concluded)

NEW YORK UNIVERSITY
College of Dentistry

WALTER H. WRIGHT, D.D.S., Dean, New York

The complex nature of dental education is understood only after a study of the curriculum which is a synthesis of many areas of learning, including biology, physics, chemistry, medicine, surgery, biomechanics, esthetics and manual skills. While the arts and skills involved in the surgical and restorative treatment are notable in the study of dentistry, these cannot be applied without an extensive background of the basic sciences, and clinical experience, together with reflective study, creative thinking, and the disturbing awareness that prevention is better than cure. While prevention is a much desired goal in dentistry and the object of much dental research, the college does not neglect the teaching of skills, diagnosis, and treatment necessary to the maintenance of oral and systemic health of the public which continues to suffer from innumerable dental diseases, disorders, and deficiencies.

How to balance the curriculum between basic sciences and clinical practice, between the medical and technical aspects of dentistry, has been a difficult question for dental educators and one of the current problems in dental education.
At the College we believe that advances in dental science and the increasing dental health needs of the public call for emphasis of the biologic sciences in dental education leading to an understanding of general public health problems and greater cooperation with other health professions and agencies in the relief of human disease. Recent development in the field of dental medicine is in keeping with increasing need for cooperation between medicine and dentistry in the college, in the hospital, and in practice. This aspect of dental training is augmented by members of the medical faculty who teach dental students at the dental and medical colleges and a scheduled 40-hour medico-dental program for senior dental students at the hospital.
When one undertakes to recite his philosophy of dental education within the restricted opportunities imposed by a limit of two hundred words, one must look for the most direct means by which his several concepts may be outlined in terms of broad, general headings and without the benefit of explanatory detail. This must be done with the hope that, in lacking explanation, these general statements will not be misconstrued or be interpreted in any other sense than that intended by the author.

I have, accordingly, elected to outline my own educational philosophy by way of broad and general statements on my concepts of the present day aims, objectives and responsibilities of a school of dentistry including the long range plans for future development and alterations in teaching as I interpret the trends and modifications in dental practice.

The only excuse for the existence of an institution or organization of any kind is that it serves a useful purpose—satisfies (at least, in part) a need of humanity. Reduced to its very simplest terms, then, the first, and by far the greatest, need which a dental school fulfills is that of effectively training men and women that they may competently practice general dentistry. Certainly no one questions the crying need in all parts of the country for general dental practitioners and the supplying of this need is a school’s first and major responsibility.
No one questions, either, the necessity of a sound, well-formulated research program in the school. Investigation is stimulating and those who are engaged in it pass on to their students and faculty confreres a spirit of enthusiasm which is vitalizing to the entire school. Thus, a research program holds forth not only the possibility of new discovery and progress, but also provides one means of stimulating and inspiring the faculty and student body. The support and encouragement of this program in a dental school should be listed as the "number two" responsibility.

Graduate programs encompassing two objectives should receive thoughtful attention: first, that of a refresher type whereby practicing dentists may return to the school for comparatively short periods for the purpose of bringing up-to-date or enhancing their knowledge in any of the several areas of dental practice, but not aimed at training for a specialty nor leading to a degree. Second, training programs developed on the graduate level in cooperation with the graduate school of the university and included as a part of its program, training for the specialties. For a school to offer a
training program of either type when it lacks either the facilities or the personnel to competently conduct the program is to perpetrate a fraud and attempt to deceive both the proposed student and the public.

Graduate training of both types is a necessity to practice and it is a responsibility of the schools to foster the programs but to do so only when very adequate facilities and personnel are available and to conduct them on the highest educational level as a true university discipline.

Thus dental education has manifold obligations and responsibilities but the scope of any program is dependent upon facilities, personnel and finances, and the school's first effort should be directed toward competent education for general practice.

UNIVERSITY OF PITTSBURGH
College of Dentistry
L. E. VAN KIRK, D.D.S., Dean, Pittsburgh

At the University of Pittsburgh, the objective of the School of Dentistry is essentially the same as in other schools over the country, educating young men to meet the dental needs of the area.

The University is spending a considerable sum of money to modernize our present Infirmary Building. The interior has been completely remodelled in order to meet the changing demands on modern educational institutions.

We are trying to screen applications for admission as objectively as possible in order to select those best qualified for a course of training in dentistry and with reasonable assurance of a successful career after graduation.
The faculty has been strengthened by the addition of several new men, well qualified to teach and interested in the basic problems of dental education.

By the above procedures—continuing the improvement in equipment and careful selection of students and faculty—we hope to fulfill our objective and purpose as the School of Dentistry of the University of Pittsburgh.

Dentistry, one of the most important specialties of the healing art, imposes on the dental educator serious obligations. The dental graduate should be a man of high character, capable of leadership in his community, and properly and adequately trained in the basic bio-
logical sciences as well as in the technical restorative procedures. He should render a health service primarily to assure and preserve dental health with financial remuneration taking second place. He must be capable of diagnosing accurately oral disorders, of recognizing systemic relationship, and of instituting proper local and general treatment, the latter often entailing cooperation with the physician. Much of his local restorative procedures involve miniature engineering principles applied to live tissues.

Today, largely because of the educational privileges offered to veterans, the dental educator has a greatly increased opportunity to select from the great numbers applying for dental education, men who possess the character, intelligence, and aptitude to make this type of dental graduate. In meeting this, his first obligation, the educator should exhaust every means to make the best possible selections.

In recent years so much has been written in regard to the requirements of adequate and proper training in both the biological and technical phases of dentistry, that a common understanding is shared by most dental educators. The present day conception does not minimize the importance of the technical phases of dentistry, but it does recognize oral disorders as major health problems and makes imperative the thorough training of the dental student in biological fields. It is through the scientific aspects of dentistry that we have acquired much valuable knowledge of the causes of dental diseases and how to treat them. The curricula of most dental schools now include the necessary courses for this training. The pre-clinical
biological science courses in many instances are taught by the same science teachers who teach medical students.

Perhaps the most serious problem facing the dental educator today in meeting his obligations is the difficulty experienced in securing and holding a clinical staff capable of inspiring and stimulating his students and of developing their desirable potentialities. Our teachers should possess character above reproach and should be capable of making application of the biological subjects to clinical dentistry and of rendering that high degree of excellency of service demanded of the student for graduation. Our dental teachers then must be men who rate in the upper brackets of the profession. We must seek ways to increase their financial and other forms of reward so that dental education will be a field with a strong appeal to those who can excell.

With the obligations of undergraduate training adequately met, the dental educator should then turn attention to the need for graduate and post-graduate instruction, because it is through advanced and continued study and research that our profession continues to grow and solve its many problems.
Dental Education has matured rapidly among the time-honored professions since the beginning of the century in that, today, competent college graduates more and more seek the study of dentistry as a field in which to devote their lives to service. This is fitting as well as gratifying in a profession whose responsibility for the general health and human happiness has grown in such abundant proportions to the new demands for a universal rehabilitation and preservation of humanity.

It was no mere gesture on the part of the great physician, teacher and clinician—Sir William Osler—who said “There is not one single thing in preventive medicine that equals in importance mouth hygiene and the preservation of teeth.” The dental profession, including dental education, is fully cognizant of the devastating results of dental disorders. The public, too, has been made more acutely aware of the role of oral conditions which was dramatized by millions of young Americans found physically unfit for military service because of disabling diseases of the teeth and mouth tissues. Indeed, the substantial concern on the part of the public as well as the profession for this important element of our general, physical well-being points toward another milestone along the road of vibrant, healthy living for mankind.

The applications of science to nearly every phase of dental edu-
cation and practice have brought about conditions whereby all of the
diseases common to the oral cavity can be dealt with effectively even
in instances where the cause has not been wholly defined. It appears,
therefore, that the next milestone ahead for dental education, the
profession and the public may not be found, alone, in the discovery
of more scientific truths regarding the cause and control of oral
disorders, but in the means of disseminating the existing God-given
gifts of dental science to all of the population, while we preserve, at
the same time, our most sacred American institutions.
Dental educators of today have a very great responsibility. With the large number of young men who are desirous of entering dental schools many problems are confronting dental faculties. Approximately eight hundred and fifty applications were received at Georgetown for places in the present first year class. Ninety-one were accepted which was the largest class in the history of the School. Many of the number who could not be accepted have applied for entrance in September, 1948. However, it might be of interest to note that although the class started its course in September, up to December 1st, nine of its members have withdrawn. Five resigned as a result of poor grades, three as a result of illness at home and one as a result of personal illness, leaving in the class at the present time eighty-two students, practically a 10% loss in such a short time. All of these withdrawals were veterans and had attended predental courses immediately preceding their acceptance. In other words, they were not permitted to come directly out of the armed services into the Dental School. Of the five in the group above, two had degrees; one, three years of college; two, two years of college. One wonders if all the dental schools are having such an experience.

The selection of the dental student is a most important factor in dental education and the demand for good dentistry can only be
met by the inculcation of a sound program of basic science training which must be used in the clinical teaching.

This student should be imbued with the importance of his profession and its service to society, of the part he will play later in his career to place dentistry in his community on a high level of service and attainment.
AMERICAN COLLEGE OF DENTISTS
REGISTER OF MEMBERSHIP
As of December 31, 1947

I. HONORARY FELLOWS

Ash, James Earle, '47, Army Institute of Pathology, Washington 25, D. C.
Blair, Vilray P., '38, Metropolitan Bldg., St. Louis 3, Mo.
Hanzlik, Paul J., '33, Stanford University School of Medicine, San Francisco 15, Calif.
Heatwole, Timothy Oliver, '40, Walbert Apartments, 1800 N. Charles St., Baltimore 1, Md.
Horner, Harlan H., '42, 222 E. Superior St., Chicago, Ill.
Kraus, Edward H., '32, University of Michigan, Ann Arbor, Mich.
Leake, Chauncy D., '36, University of Texas, College of Medicine, Galveston, Tex.
Leary, Timothy, '31, 44 Burroughs St., Jamaica Plain 30, Mass.
Luckhardt, Arno B., '33, 5216 Greenwood Ave., Chicago 15, Ill.
McQuarrie, Irvine, '38, University of Minnesota, Minneapolis, Minn.
Miller, Sydney Robotham, '40, 1115 St. Paul St., Baltimore 1, Md.
Murphy, Francis Daniel, '39, Milwaukee County Hospital, Milwaukee 13, Wis.
Parran, Thomas, '40, U. S. Public Health Service, Washington 14, D. C.
Riggs, Charles E., '31, 3105 - 36th St., Washington 16, D. C.
Schwitalla, Fr. A. M., '38, St. Louis University, St. Louis 4, Mo.
Sinai, Nathan, '34, University of Michigan, Ann Arbor, Mich.
Waller, Clifford E., '33, 1103 W. Highland Drive, Woodside, Md.

Total 22

2. ACTIVE FELLOWS

Abbey, Leon L., '44, 619 Union Street, Schenectady 5, N. Y.

1 Numerals following names indicate year of admission to Fellowship.
* A founder.
** A founder and organizer.
Abbott, Rush P., '34, West Point, Miss.
Abbott, Thomas Richard, '38, 1321 S. 28th St., Milwaukee 4, Wis.
Adams, Carl W., '44, 3151 Pepper Tree Lane, San Bernardino, Calif.
Addie, Charles B., Sr., '37, 1300 N. 29th St., Philadelphia 21, Pa.
Aisenberg, Myron S., '33, 618 W. Lombard St., Baltimore 1, Md.
Albaugh, Harold E., '43, 518 Castano Ave., San Antonio, Tex. (Army—
regular, retired).
Albert, Archie A., '43, 84 Broad St., Pawtucket, R. I.
Alexander, Howard, '33, 1305 E. 63rd St., Chicago 37, Ill.
Alford, Frank O., '39, First Natl. Bank Bldg., Charlotte 2, N. C.
Allen, Clifford C., '44, U. S. Naval Receiving Station, Washington, D. C.
(Navy—regular)
Allen, Newtin Ervin, '44, 213 Hooper Drive, Selma, Ala.
Amies, Arthur, '38, care Australian College of Dentistry, 193 Spring St.,
Melbourne, Australia.
Amundson, Frederick A., '47, 1200 Medical Arts Bldg., Duluth, Minn.
Anderson, Alvin B., '40, Hamilton Bank Bldg., Knoxville 2, Tenn.
Anderson, George M., '31, 831 Park Ave., Baltimore 1, Md.
Anderson, Oswell A., '43, 1329 Medical and Dental Bldg., Seattle 1,
Wash.
Archer, W. Harry, Jr., '38, 804 Professional Bldg., Pittsburgh 22, Pa.
Arnold, Earle S., '42, 37 Linnard Road, West Hartford 7, Conn.
Arnold, Edmond B., '38, 3306 Fannin St., Houston 4, Tex.
Arnold, Eugene K., '47, 430 Professional Bldg., Kansas City, Mo.
Arnold, Francis A., Jr., '44, U. S. P. H. Service, Natl. Inst. of Health,
Bethesda, Md. (U.S.P.H.S.)
Arnold, Joseph P., '37, 1021 Esperson Bldg., Houston 2, Tex.
Arnott, Alwyn J.,'32, care Dental Hospital, Chalmers St., Sydney,
Australia.
Asch, Andrew J., '39, 8 West 40th St., New York 18, N. Y.
Ashby, John L., '40, Box 728, Mount Airy, N. C.
Atkinson, Spencer Roane, '37, 407 Professional Bldg., Pasadena 1, Calif.
Austin, Louie T., '38, Mayo Clinic, Rochester, Minn.
Bach, Ernest N., '37, 305 Professional Bldg., Toledo 2, Ohio
Bailey, Adams, '39, 1 East 57th St., New York 22, N. Y.
Bailey, Elpha E., '36, 1124 Republic Bldg., Denver 2, Colo.
Bailey, Joseph W., '46, 712 Medical-Professional Bldg., Corpus Christi, Tex.
Baker, Charles Reeder, '28, 636 Church St., Evanston, Ill.
Baker, Chester A., '32, 1726 Eye St., N.W., Washington 6, D. C.
Baker, Frederick Cooper, '39, 508 Calumet Bldg., Hammond, Ind.
Baklor, Max Kentz, '42, 815 Medical Arts Bldg., Baltimore 1, Md.
Ball, Edward L., '31, 814 Doctors Bldg., Cincinnati 2, Ohio
Banks, Ernest Lee, '40, 805 Candler Bldg., Atlanta, Ga.
Bannister, Guy P., '42, 1036 Rose Bldg., Cleveland 15, Ohio
Barber, Henry U., Jr., '42, 5 East 57th St., New York 22, N. Y.
Barker, Paul A., '43, 723 Republic Bldg., Denver 2, Colo.
Barnard, Frank P., '35, 507 Main St., Worcester 8, Mass.
Barry, Aloysius L., '38, 144 Harrison St., E. Orange, N. J.
Bassett, Charles Turk, '38, R.F.D. No. 1, Box 152, Auburndale, Fla.
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<td>4500 Olive St., St. Louis, Mo.</td>
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<td>524 Mack Bldg., Denver 2, Colo.</td>
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<td>Madison at 10th St., Wilmington 16, Del.</td>
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<td>220 Marlborough St., Boston 16, Mass.</td>
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<td>Kingman, Kans.</td>
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<td>888 Park Ave., New York 21, N. Y.</td>
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<td>Dingman, Reed Othelbert</td>
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<td>Douglas, Arthur F.</td>
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<td>Fleming, J. Martin</td>
<td>'29</td>
<td>1218 Glenwood Ave., Raleigh, N. C.</td>
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<td>Fleming, Willard C.</td>
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<td>Foerster, Frank H.</td>
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<td>'34</td>
<td>Lahaina, Hawaii</td>
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<td>Frederich, Val H.</td>
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<td>Freeman, Charles W.</td>
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<td>Frew, Athol Lee</td>
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<td>GaNun, Gordon M.</td>
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<td>30 West 59th St., New York, N. Y.</td>
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<td>Garrett, William A.</td>
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<td>833 Candler Bldg., Atlanta, Ga.</td>
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<td>Gates, Lester Minton</td>
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<td>97th General Hospital, A.P.O. 757, c/o Post-master, New York (Army—regular)</td>
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<td>327 E. State St., Columbus 15, Ohio</td>
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<td>Henderson, Archibald B.</td>
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<td>Heneghan, James Francis</td>
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<td>Herz, Francis J.</td>
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<td>Hicks, Charles Joseph</td>
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<td>8126 Jenkins Arcade Bldg., Pittsburgh 22, Pa.</td>
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<td>Mead, Sterling V.</td>
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<td>1540 Hanna Bldg., Cleveland, Ohio</td>
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<td>Merchant, Henry A.</td>
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<td>Merriam, Alvin F., Jr.</td>
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<td>Merritt, Arthur H.</td>
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<td>*Midgley, Albert L.</td>
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<td>1108 Union Trust Bldg., Providence 3, R. I.</td>
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<td>Millarr, Compton B.</td>
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<td>1286 Flood Bldg., San Francisco, Calif.</td>
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<td>Miller, E. Carl</td>
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Young, Alfred Clyde, '29, 121 University Place, Pittsburgh 13, Pa.
Ziesz, Robert C., '36, 490 Post St., San Francisco, Calif.
Zemsky, James L., '38, 147 Fourth Ave., New York 3, N. Y.
Ziegler, Joseph Eugene, '45, 3875 Wilshire Blvd., Los Angeles 5, Calif.
Ziegler, Samuel, '38, 405 Lowry Medical Arts Bldg., St. Paul 2, Minn.
Zimmerman, Neal L., '36, 620 Medical Dental Bldg., Portland, Ore.

Total 1319

A. GEOGRAPHIC DISTRIBUTION OF ACTIVE FELLOWS

I. United States

Arizona: Bennett (P.), Bruening, Johnson (W.), Matteson, Tweed—5.
Arkansas: Ball (J.), Blakemore, Child, Gibbs, Gray (M.), Hanna, Jordan (J.), Johnson (E.H.), Koch, Rushing—10.
California: Adams (C.), Atkinson, Becks, Bell (D.), Benbrook, Bishop, Blake, Blanquie, Boero, Boots, Boyd (B.), Brand, Bricker, Bullard, Cannon...
REGISTER OF MEMBERSHIP

(H.), Childs (H.), Christiansen, Coleman (B.), Conley (F.), Davis (A.), Dillon (C.), Dunn (A.), Durst, Endelman, Fleming (W.), Fontaine, Frisbie, Gill, Graham, Gray (C.), Green (R.A.), Grover, Gurley (J.), Hahn (G.), Hambly, Hancock, Harrison (W.), Hayes (G.), Herz, Hogeboom, Holleback, House, Hughes (G.), Humphreys, Hunt (V.), Inskipp, Johnson (C.), Johnson (E.L.), Jones (R.), Kibler, Kingsbury, Kirtland, Knapp, Knudson, Leggett (J.), Leggett (R.), Leslie, Linehan, Locke, Loop, Lucas, Lufkin, Lush, Marshall (L.), McCoy, McGee, Merriam, Millar, Millikin, Moose, Nesbitt, Nuckolls, Olds, Petray, Potter, Price (W.), Robinson (W.), Rounds, Rule, Rutledge, Ryder, Scott (S.), Selberg, Selleck, Sheffer, Sloman, Smith (L.), Smith (T.S.), Smith (Wm.S.), Soderstrom, Sorensen, Sweeney, Sweet, Taber, Terrell, Terwilliger (G.), Terwilliger (K.), Thompson (W.), Tilden, True, Tyllicki, Veatch, Wagner, Werner, West (F.), West (S.), Ziesz, Ziegler (J.)—108.

Colorado: Bailey (E.), Barker, Bertram, Brown (C.), Brownlie, Chambers, Cogswell, Devitt, Downs (B.), Downs (R.), Giesecke, Harris (H.), Hoffman (H.), Johnston (L.), Kelly (A.), Markley, Monroe, Roberts (Z.), Smedley, Spencer, Walsh (L.), Zimmer—22.

Connecticut: Arnold (E. S.), Bray, Brooks (C.), Burkhart, Conran, Cory, Gibb, Knauff, McLaughlin, Murlless, Peterson—11.


Georgia: Banks, Barnwell, Brown (L.), Byrnes, Childs (W.), Coleman (W.), Garrett, Harpole, Holliday, Huff, Hunter, Jaynes, Johnston (H.), Mitchell (G.), Mitchell (J.), Mitchell (R.), Murphy (R.), Scruggs, Slaughter, Sturdevant, Sullivan (J.), Tucker—22.

Idaho: Colver—1.

Illinois: Alexander, Baker (C. R.), Blackwell, Bremner, Brevig, Cameron (D.), Cart, Clendenen, Conklin, Coolidge, Daitch, Dittmar, Edlund, Ford (J.), Freeman, Gallie, Gethro, Gruebbel, Hayes (H.), Hewett, Hoeffel, Jelinek, Johnson (L.), Kremer, Kurth, Lee, Lundquist, MacBoyle,
Marks, McNulty, Miller (H. C.), Millhon, Morrey, Mueller, Noyes (F.), Olafsson, Partridge, Pendleton, Pinney, Romnes, Sauer, Sayre, Schaefer (J.), Schlosser, Smith (C. C.), Smith (C. M.), Smith (E. H.), Smith (H. S.), Stransky, Swanson (E.), Teuscher, Thomas (E. H.), Thompson (Edw. C.), Tylman, Waddell, Wekenman, Welch, West (C.), Willett—59.

Indiana: Baker (F.), Berkey, Blakeman, Boyd (D.), Campbell, Carr (J.), Crum, Denny, Gilchrist (E.), Gillis, Gregory (G.), Haynes (E.), Hilgeman, Hine, Hughes (F.), Jackson (C.), Johnston (J.), Kelly (W.), Kennedy (R.), Kennedy (W.), LaRue, Leavell, Martin (B.), Miller (R.), Mitchell (E.), O’Halloran, Peck, Pell, Voiers, Westfall, Wilson (J.)—31.


Maine: Browne, Grant (G.), Haskell, MacKay, Maxfield (C.), Maxfield (F.), Small (D.), Swett, Woods—9.

Maryland: Aisenberg, Anderson (G.), Baklor, Bell (A.), Bland, Bock, Brandon, Brun, Clemson, Coriell, Deems, Diehl, Dobbs, Dorsey, Eader, Eggnaetz, Essig, Ferguson (J.), Gaver, Golton, Grempler, Hahn (W.), Hardy, Heintz, Hicks (H.), Hopkins, Ide, Inman, Jersin, Karn, Leonard, Levin, Lovett, McCarthy (H.), McCrea, Nuttall, Oggesen, Parsons, Preis, Pyott, Robinson (J.), Shehan, Smith (F.), Smith (W. W.), Sommers (H.), Streett, Swinehart, Trail, VanNatta, Wells (B.)—50.

Massachusetts: Adams (P.), Alden, Barnard, Brown (G.), Bryans (W.), Burke (W.), Canavan, Carnes, Cleaveland, Cogan, Corriveau, Cronin, Daley, Daniels, Dempsey, Desmond, Dort, Dunning (J.), Elliott (M.), Estetberg, Feeney, Fitz-Gibbon, Foss, Gibbons, Giblin, Grant (F.), Grant (W.), Griffin, Hinds, Holt, Hookway, Howe, Jacobs, Karcher, Kazanjian,
Keltie, Larkin, MacKinnon, Mallett, Marjerison, Maycock, McKenna, Miner (L.), Muzzey, O'Hearn, O'Rourke, Obrey, Perkins, Peters, Rafferty, Rogers (A.), Rogers (F.), Sager, Spinney, Tannebring, Thatcher, Tyler, Vaughan, Weller, Williams (A.), Winchester, Wright (E.), Wyman—63.

Michigan: Applegate (O.), Applegate (S.), Bartlett, Blackerby, Bunting, Caderatte, Conley (C.), Cook, Davis (Wm. R.), Diedrich, Dingman, Easlick, Elliott (W.), Gibson, Girardot, Goodsell, Hall (C.), Harris (S.), Jay, Jeserich, Kemper, Kingery, Larned, Lewis (S.), Lowery, Mason (W.), McBride (W.), Moore (G.), Morris (E.), Northrup, Perry, Pilkingon, Prince, Richards, Rochon, Schultz, Seyler, Shackelford, Spalding, Travis, Vedder, Ward, Whiteman (W.), White (O. W.), Wood (H.), Wright (C.)—46.


Mississippi: Abbott (R.), Chipps, Haynes (G.), Henderson (A. H.), Leggett (T.), Wright (W. R.)—6.

Missouri: Arnold (E. K.), Brady, Brandhorst, Broadhurst, Brock (D.), Brooks (E.), Brown (J. A.), Buechel, Calmes, Carmichael, Coleman (C.), Connelly, Davidson, Digges, Dillon (E.), Edwards (R.), Engel, Fisher (H.), Foerster, Frederich, Freitag, Frost, Gates, Gurley (W.), Hagemann, Haverstick, Hillias, Jones (A. H.), Keys, Knighton, Kornfeld, Lischer, Main, Marrê, Marshall (J.), Mayer, McFarland, Miller (Jesse), Moore (N.), O'Brien, O'Hare, Owen, Poe, Porter (C.), Purcell (T.), Remfrow, Rinehart, Robb, Rodgers, Sawyer, Schopper, Scott (G.), Scott (J.), Shepard, Spotts, Steber, Templeton (J.), Westhoff, Wheeler, White (W. W.), Williams (J. H.)—61.

Montana: Bell (F.), Cogley, Dohrmant, Deglia, Rider, Swanson (C.), Weyer—7.

Nebraska: Colgan, Davis (C.), Drake, Hemphill, Hunt (L.), Ireland,
AMERICAN COLLEGE OF DENTISTS

King, Ludwick, Merchant, Myers (L.), Pierson, Prime (J.), Raasch, Rohde (F.), Schaefer (F.), Shearer, Thomas (E. A.), Webster (F.), Yost—19.

Nevada: None.


New Jersey: Barry, Boyko, Brach, Bull (H.), Burke (J.), Devlin, Dorr, Dunning (W.), Faupel, Harper (C.), Harrington, Houghton, Jennings, Lentz, Lowy, Lum, Lusardi, Pruden, Reock, Samuel, Schneider, Schwartz, Simkins, Smith (E. A.), Stillwell, Waldron (R.), Walsh (J.), White (E. R.), Wilson (W. A.), Wisan—30.

New Mexico: Clarke, Lord, Moran, Wainwright—4.

New York: Abbey, Asch, Bailey (A.), Barber, Beier, Berger, Birenbach, Blum, Blutau, Bodecker, Bossert, Bowman, Bronner, Brophy, Burr, Cahn, Callahan, Callaway, Carr (M.), Chapin, Chase, Citron, Cleveland, Collins, Cool, Cottrell (I.), Davenport, Douglass (G.), Dunn (L.), Ellis (W.), Ernst (H. H.), Flynn, GaNun, Gauchet, Gies, Granger, Groh, Hayes (L.), Heinze, Hemley, Henderson (A. B.), Henegan, Hillyer, Holbrook, Howes, Irving, Isaacson, Ivory, Kaletsky, Kany, Keane, Keller, Kennedy (E.), Kohn, Lewis (F.), McBeath, McCall (J.), McCarthy (F.), Meisburger, Merritt, Metz (K.), Miller (D.), Miller (S.), Mimmack, Montgomery, Mork, Morris (J.), Murphy (E.), Nestler, Neuber, Ortion, Padelford, Palmer, Pankow, Pfeiffer, Phillips (P.), Porter (L.), Riesner, Roberts (J.), Roberts (M.), Salman, Schelpert, Schneer, Schuyler, Shapiro (B.), Shapiro (J.), Shapiro (S.), Sniffen, Squires (F.), Squires (W.), Stern, Stevens, Swift, Tanchester, Taylor (W.), Trier, Van Valey, Wakefield, Wald, Waugh, Wells (C.), West (J.), Whitson, William, Winter (L.), Woodworth, Wright (W. H.), Zemsky—108.


Ohio: Bach, Ball (E.), Bannister, Boucher, Brann, Broadbent, Brown (H.), Burmeister, Cottrell (H.), Dressel, Harkrader, Hebble, Hill, Jarvis, Kitchin, Loughry, MacMillan, Meisser, Miller (E. C.), Mills (C.), Mills (E.), Postle, Pryor, Sargeant, Schott, Sebald, Semans, Snyder (D.), Starr (F.), Steffel, Stephan, Stillson, Stricker, Strosnider, Sullivan (J.), Weaver, Welker—37.


Oregon: Bettman, Cooper (H. C.), Elliott (B.), Gullick, Fixott, Hoppe,
Hoskin, Hurd, Jenkins, Meaney, Noyes (H.), Prime (F.), Redpath, Starr (E), Watson, Zimmerman—16.

Pennsylvania: Addie, Aiguier, Anderson (H.), Archer, Ashbrook, Bomberger, Booth (C.), Booth (W.), Brennan, Buhler, Cameron (J.), Casto, Cooper (Herbert Kurtz), Corcoran, Crumpton, Eselman, Everhard, Fickes, Fiero, FitzHugh, Forbes, Friesell, Gougler, Gregory (W.), Haas, Hagan, Harkins, Jack, Lotz, McBride (T.), McCready, McNerney, McParland (J.), McParland (P.), Meisel, Mershon, Metz (H.), Miller (E. H.), Oartel, O'Leary, Pallardy, Rial, Ritsert, Rusca, Sandman, Sausser, Shonfield, Stetzer, Swanson (W.), Timmons, Van Horn, Van Kirk, Walter, Walton, Whiteman (J.), Winter (G.), Wise, Young, Zugsmith—59.

Rhode Island: Albert, Charbonnel, Conley (P.), Holland, Lynch (A.), MacKnight, Midgley, Mullaney, Spicer, Webster (R.)—10.

South Carolina: Brockington, Dick, Hair, Higgins—4.

South Dakota: Berry, Boyden, Eggers—3.

Tennessee: Anderson (A.), Clotworthy, Hoffer, Jamieson, Levy, Lundy, McCaleb, Meachum, Ogden, Oliver, Phillips (J.), Slater, Speas, Templeton (L.), Underwood, Vaughn, Vinsant—17.

Texas: Arnold (E. B.), Arnold (J.), Bailey (J.), Beachum, Beckman, Berwick, Brock (S.), Conly, Crabbs, Delafield, Duckworth, Ellington, Elliott (F.), Falls, Foster (W.), Fountain, Frew, Garrison, Gillean, Glenn, Hall (J.), Hays, Hicks (C.), Holder, Jones (A.), Jones (B.), Kennedy (T. H.), Kercheval, Knutzen, Lacey, Lux, Lynn (C.), Lynn (R.), McCall (W.), McCarty, McNeil, McRimmon, Maddox, Mills (S.), Morris (G.), Newton, Nygard, O'Farrell, Ogle, Outlaw, Parks, Peavy, Platt, Powers, Preston, Prichard, Ranfranz, Robertson, Rogers (R.), Scherer, Shaffer, Sloan, Talbot, Taylor (C.), Taylor (Edw.), Taylor (E. W.), Thielen, Thornton (I.), Tipton, Turner, Vogan, Waltmon, Williams (E.), Williams (P.)—69.


Vermont: Johnson (E. E.), Pond, Reid (H. H.), Small (H.), Taggert—5.

Virginia: Ashton, Bear, Bostwick, Brashier, Chevalier, Clough, Duncan, Goad, Harrison (G.), Hodgkin, John, Little, Lyons, Muir, Pilcher, Simmons, Smith (H. L.), Snapp, Sprinkel, Walker (M.), Wash, Williams (J. B.)—22.

Washington: Anderson (O.), Barlow, Brauer, Dean (O.), Ellsperman, Ferrier, Hampson, Jeffery, Jones (E. M.), Martin (A.), Molt, Randolph, Spratley—13.

Wisconsin: Abbott (T.), Banzhaf, Bassman, Baumann, Bennett (G.), Benson, Casey, Christensen, Clark (C.), Crawford (J.), Dippel, Donovan, Dresen, Droegkamp, Fee (A.), Fee (G.), Flancher, Hahn (H.), Hardgrove, Hopkinson, Huegel, Johnson (M. E.), Justin, Kolter, Kraus (E. E.), Macfarlane (W. I.), McFarlane (W. A.), Milliette, Moen, Morgan, Morton, Mortenson (J.), Mortonson (M.), Nachazel, Nelson (Clarence A.), Redeman, Rohde (A.), Stratton, Tolen, Uebele, Wahl—41.

Wyoming: None.

Territories: Conner, Fraser, Pritchard—3.


Veteran's Administration: Childers, Fauber, Rollins—3.

United States Public Health Service: Arnold (F.), Cooper (D.), Dean (H.), Kroschel, Miller (J.), Nevitt, Paquin, Pelton, Scroggie—9.

II. Countries other than the United States

Australia: Amies, Arnott, Best, Charlton, Moxham, Tuckfield—6.

Canada: Anderson (P.), Box, Charron, Cline, Conboy, Dohan, Ellis (R.), Faulkner, Fisk, French, Gilchrist (H.), Grant (E.), Guillet, Hamilton, Mason (A.), Moore (F.), Mowry, Pallen, Reid (H. W.), Sproule, Thomson, Walsh (A.), Whittaker—23.

China: Cheo, Lindsay, Mullett—3.


India: Khambatta—1.

B. Classification of Active Fellows as to Year of Admission


1922: Bruening, Bunting, Byrnes, Chambers, Coriell, Dittmar, Gillis, Gurley (J.), McCoy, Millikin, Price (W.), Prime (J.), Semans—13.

1923: Blum, Brown (H.), Chandler (C.), Fickes, Friesell, Gies, Hassell,
Hocking, Kennedy (E.), Lucas, Merritt, Robinson (J.), Waldron (R.),
1924: Hardgrove, Hume, Morton, Phillips (J.), Smith (H. S.), Tuck-
field—6.
1925: Goeppeper, Huff, Jackson (C.), Lischer, Rinehart, Powers, Stephan,
Watkins—8.
1926: Blue, Bodecker, Bostwick, Cameron (D.), Coolidge, DeVries, Fee
(A.), Hoffer, Khambatta, King, McCall (J.), Mork, Mullaney, Rohde
(A.), Spalding—15.
1927: Benbrook, Blakeman, Charbonnel, Crawford (J.), Dick, Elliott
(W.), Fixott, Hayes (G.), Hubbuch, Kennedy (W.), MacBoyle, Mac-
Millan, Mortonson (J.), Mortonson (M.), Oliver, Shearer, Sprau, Stratton,
Thomas (R.), Wright (W. H.)—20.
1928: Ashbrook, Baker (C. R.), Boots, Bryan, Charlton, Dunning (W.),
Fitz-Gibbon, Frew, Graham, Hildebrand, Hillias, Hopkinson, Kibler, Lasby,
Lindsay, Lowery, Mitchell (J.), O'Rourke, Palmer, Partridge, Simkins,
1929: Altfillisch, Bear, Benson, Berger, Blackwell, Booth (C.), Brand,
Brun, Camalier, Conklin, Fenton (R.), Fleming (J.), Freeman, Hopkins,
Hower, Hurd, Ide, Jelinek, Kazanjian, Knapp, Lee, Lundquist, Martin (A.),
Maxfield (F.), McParland (P.), Meisel, Metz (H.), Miller (H. C.),
Miner (L.), Mueller, Nelson (H.), Nestler, Olafsson, Randall, Scott (S.),
Selden, Smith (E. H.), Thoen, Tylman, Van Kirk, Wallace, West (F.),
Williams (E.), Williams (J. B.)—44.
1930: Boyd (B.), Brownlie, Burket, Clendenen, Cogswell, Combs, Davis
(A.), Giesecke, Gulick, Hollenback, Locke, Roberts (C.), Robinson (W.),
Smith (E. S.), Smith (T. S.), True, White (F. D.), White (P. G.)—18.
1931: Anderson (G.), Ball (E.), Caraballo, Carr (J.), Davis (Wm. R.),
Faulkner, Hodgkin, Johnson (J.), Keltie, LaRue, Lineberger, Mason (A.),
McCready, McElrath, McLean, Mills (C.), Mills (E.), Pell, Richmond,
Rudolph, Schott, Slaughter, Vinsant—23.
1932: Arnott, Baker (C. A.), Cottrell (H.), Edlund, Ernst (M.), Fitz-
Hugh, Flagstad, French, Grant (W.), Harper (C.), Keys, Kohn, Lotz,
Lynch (A.), McClung, McCole, Molt, Moore (F.), Ogden, Pond, Rial,
Rollins, Schlosser, Schuyler, Spurgeon, Stern, Streett, Swanson (W.), Sweet,
Thomas (E. A.), Van Horn, Whiteman (J.), Wise—33.
1933: Aisenberg, Alexander, Bergstrom, Booth (J.), Brady, Bremner,
Brevig, Bricker, Broadbent, Brockington, Burmeister, Casto, Christensen,
Christiansen, Copeland, Davenport, Ferguson (J.), Ferrier, FitzGerald (L.), Gill, Hall (J.), Harrison (G.), Hewett, Hill, Hoefel, Huegel, Jones (B.), Macfarlane (W. L.), McBride (W.), McGeeh, Meacham, Morgan, Morrey, Pinney, Prince, Purcell (T.), Schaefer (J.), Smith (H. L.), Staples, Vedder, Wherry, Woodworth—42.


1935: Alden, Barnard, Becks, Brown (G.), Cameron (J.), Chipp, Clarke, Desmond, Doan, Faupel, Goodsell, Harkins, Harkrader, Irving, John, Maxfield (C.), Merriam, Moose, Nygard, Oartel, Paffenbergar, Scruggs, Selberg, Selleck, Sniffen, Spencer, Stillson, Summers, Swanson (H.), Werner, White (O. W.), Wilson (J.)—32.

1936: Bailey (E.), Baumann, Bettman, Blake, Blanquie, Coleman (B.), Dean (O.), Fleming (W.), Fontaine, Frisbie, Green (R. A.), Haas, Hogeboom, Johnson (L.), Johnson (R. E.), Kingsbury, Klaffenbach, Koch, Leggett (J.), Lum, Moxham, Mullett, Murliss, Nesbitt, Pankey, Parkison, Sheffer, Smith (P.), Sorensen, Thompson (W.), Timmons, Willett, Williams (A.), Ziesz, Zimmerman—35.

1937: Adams (P.), Addie, Aiguier, Arnold (J.), Atkinson, Bach, Boydston, Bradford, Bronner, Bull (H.), Cartee, Conley (C.), Cooper (Herbert Kurtz), Dillon (C.), Dort, Engel, Erikson, Everhard, Frederich, Garrett, Girardot, Grant (G.), Griffin, Hagemann, Hale, Harrington, Harris (H.), Hughes (F.), Hyde, Jeserich, Juett, Kitchin, Lewis (S.), Loughry, Lynch (D.), Main, Maycock, Mentzer, Mitchell (E.), Nelson (Charles), O'Hare, Peters, Porter (C.), Porter (L.), Psylay, Rushing, Sapienza, Sauser, Simmons, Small (D.), Smith (A.), Stickney, Strosnider, Taylor (R. P.), Tison, Travis, Vaughan, Wells (A.), West (S.), Wiethoff, Williams (J. H.), Young—62.

1938: Abbott (T.), Amies, Applegate (O.), Archer, Armbricht, Arnold (E. B.), Ashton, Austin, Barnwell, Barry, Bartlett, Bassett, Bell (D.), Bennett (P.), Berkey, Berthel, Bertram, Best, Box, Branch, Brandon, Brauer, Broadhurst, Brock (D.), Brock (S.), Broussard, Brown (C.), Brown (J. A.), Brown (L.), Bryans (W.), Cadarette, Callaway, Canavan, Carson, Chandler (A.), Chapin, Chase, Clark (H.), Cobb, Coleman (C.), Colgan, Collins, Colver, Cook, Cory, Coulter, Crawford (W.), Daley, Daniels, Dickson, Dillon (E.), Donovan, Downs (B.), Dressel, Duck-
worth, Eader, Elliott (M.), Epstein, Ernst (H. W.), Essig, Fenton (H.), Fisher (H.), Fladeland, Flesher, Foerster, Ford (E. H.), Ford (J.), Foster (C.), Foster (W.), Fountain, Gamard, GaNun, Gaver, Genre, Gibbs, Gibson, Gilchrist (H.), Golton, Grant (F.), Gray (M.), Green (R. O.), Griffith, Grover, Hagan, Hahn (H.), Hall (A.), Hall (C.), Harpole, Harris (S.), Harrison (W.), Haverstick, Hayes (H.), Hayes (L.), Hays, Hebble, Heintz, Hemsworth, Henderson, (A. H.), Henry, Higgins, Higley, Hilgeman, Hopping, Hughes (G.), Humphreys, Hunt (L.), Inskip, Jackson (W.), Jarvis, Jay, Jersin, Johnson (E. E.), Johnson (E. H.), Johnson (M. E.), Johnston (H.), Johnston (J.), Jones (P.), Jordan (J.), Jordan (L.), Justin, Kaplan, Keller, Kingery, Kornfeld, Kraus (E. E.), Kremer, Krogh, Kurth, Lacey, Leabo, Leggett (R.), Leonard, Lewis (F.), Lord, Lovett, Lundy, Lux, MacKay, Marshall (L.), Mayer, McBride (T.), McCall (W.), McCarthy (H.), McCarty, McFarland, McKenna, McLaughlin, McRimmon, Meisser, Merchant, Miller (Jesse), Miller (S. C.), Milliette, Miner (C.), Michell (G.), Monroe, Moore (N.), Morris (E.), Muir, Murphy (R.), Muzzey, Myers (L.), Myers (R.), Newton, Noyes (H.), O’Brien, Ogle, Olive, Ostrem, Pallen, Parsons, Patridge, Petray, Pierson, Pilcher, Poe, Poindexter (J.), Pridget, Pryor, Reichmann, Rider, Robb, Rodgers, Rogers (F.), Rogers (R.), Sauer, Scott (J.), Shapiro (S.), Shellman, Slater, Sloman, Small (H.), Smedley, Smith (C. C.), Smith (E. A.), Smith (F. N.), Smith (R. V.), Synder (D.), Sommers (H.), Sommers (R.), Spinney, Spotts, Springsted, Squires (F.), Squires (W.), Stafne, Stillwell, Stricker, Sturm, Sullivan (J.), Sundby, Taggert, Tannebring, Taylor (E. W.), Templeton (J.), Terrell, Thielen, Thom, Thompson (E. L.), Thompson (Emory C.), Traynor, Trier, Turner, Tweed, Tyler, Wahl, Wald, Walsh (A.), Walsh (J.), Wash, Weaver, Webster (F.), Welker, West (J.), Wheeler, White (W. W.), Whiteman (W.), Winthrop, Wood (H.), Wood (W.), Woods, Wright (C.), Zemsky, Ziegler (S.)—244.

1939: Alford, Applegate (S.), Asch, Bailey (A.), Baker (F. C.), Bell (F.), Brooks (C.), Brown (J. D.), Carlson, Cart, Chevalier, Childs (W.), Cleaveland, Coleman (W.), Conner, Davidson, Dean (H.), Delaney, Dippel, Douglass (E.), Douglass (G.), Drake, Droegkamp, Durst, Easlick, Eggers, Ellsperman, Fee (G.), Flancher, Gilbert, Granger, Hair, Hamelry, Harker, Hartley, Haskell, Haynes (E.), Haynes (G.), Hemingway, Hillyer, Hinds, Hodgson, Hunter, Inman, Jarrell, Jefferis, Johnson (C. W.), Kemper, Kennedy (C. M.), Knutzen, Kolter, Larson, Leggett (T.), Lehman, Leslie, Little, Ludwick, Mallett, McBeath, McFarlane (W. A.),

1940: Anderson (A.), Ashby, Atkins, Banks, Beckman, Birenbach, Blutau, Bossert, Boyko, Brann, Browne, Burkhart, Calmes, Cannon (C.), Carl, Carnes, Cleveland, Clotworthy, Cogan, Conley (P.), Conran, Cottrell (I.), Davis (C.), Devitt, Devlin, Dobbs, Dorsey, Dunn (L.), Dunning (J.), Ellington, Ernst (H. H.), Estes, Feldman, Ferguson (R.), Freitag, Garrison, Gethro, Gibbons, Gilchrist (E.), Gillean, Glezen, Gregory (W.), Groh, Hemley, Hemphill, Hicks (C.), Hoffman (O.), Holbrook, Holder, Holliday, Ivory, Johnson (E. L.), Jones (E. M.), Kany, Karn, Kelly (A.), Kelly (W.), Knox, Leavell, Levy, Loop, Loper, Lufkin, Lynn (C.), Marks, Meisburger, Mershon, Metz (K.), Mills (R. H.), Mimmack, Moen, Nachazel, Nuckolls, O'Farrell, O'Hearn, O'Leary, Oggesen, Outlaw, Pankow, Peterson, Pfeiffer, Platt, Postle, Richards, Roberts (Z.), Robertson, Rohde (F.), Samuel, Sand, Sargeant, Sawyer, Schaefer (F. W.), Schultz, Smith (W. W.), Snapp, Starr (E.), Starr (F.), Swanson (E.), Tartre, Teuscher, Thorn, Tiblier, Todd, Turnquist, Underwood, Van Natta, Varnado, Wainwright, Wakefield, Waltmon, Warburton, Wekenman, Welch, West (C.), Westfall, Whinery, Williams (A. T.), Winter (L.)—119.

1941: Blakemore, Bock, Bolks, Brashear, Burkart, Burke (J.), Childers, Corcoran, Crabb, Davis (W. McL.), Deems, Foss, Gallagher, Gallie, Gregory (G.), Gyllenborg, Havá, Hicks (H.), Houghton, Jaynes, Johnson (W. J.), Kennedy (R.), Matthews, McNulty, Northrup, Pendleton, Pindexter (C.), Potter, Pyott, Ranfranz, Rule, Sheffield, Shehan, Sturdevant, Taylor (C.), Taylor (Edw.), Thornton (I.), Tucker, Vogan, Whitman, Wittich, Wright (E.)—42.

1942: Anderson (H.), Arnold (E. S.), Baklor, Bannister, Barber, Bassman, Beachum, Bennett (G.), Berry, Bishop, Blevins, Boyd, Bray, Bunker, Burke (W.), Burr, Childs (H.), Claridge, Clemson, Conboy, Conly, Cronin, Dempsey, Dingman, Dohrmann, Eggnatz, Ellis (W.), Eselman, Fisher (A.), Flynn, Foley, Giblin, Gillespie, Gray (C.), Gremler, Gruebbel, Gurley (W.), Hampson, Hardy, Heneghan, Henkin, Holt, Hookway, Jamieson, Jennings, Johns, Jones (A. L.), Jones (R.), Kennedy (T.), Lentz, Lepeska, Longley, Lynn (R.), Marjerison, Marré, Mason (W.), Moore (G.), Parks, Perkins, Phillips (P.), Pilkington, Price (R.), Prime (F.), Pritchard, Randolph, Reock, Riesner, Sager, Schelpert, Schneer, Schwartz, Shackelford, Shapiro (B.), Shapiro (J.), Shaw, Shurr, Smith (C. M.), Sprinkel, Sullivan (R.), Swift, Taylor (W.), Thomas (T. H.), Thomson, Thornton (M.), Tolan, Van Valey, Wagner, Walls (M.), Walsh (L.), Weller, Wennerberg, Wilson (W.), Wyman, Yost—98.

1940: Anderson (A.), Ashby, Atkins, Banks, Beckman, Birenbach, Blutau, Bossert, Boyko, Brann, Browne, Burkhart, Calmes, Cannon (C.), Carl, Carnes, Cleveland, Clotworthy, Cogan, Conley (P.), Conran, Cottrell (I.), Davis (C.), Devitt, Devlin, Dobbs, Dorsey, Dunn (L.), Dunning (J.), Ellington, Ernst (H. H.), Estes, Feldman, Ferguson (R.), Freitag, Garrison, Gethro, Gibbons, Gilchrist (E.), Gillean, Glezen, Gregory (W.), Groh, Hemley, Hemphill, Hicks (C.), Hoffman (O.), Holbrook, Holder, Holliday, Ivory, Johnson (E. L.), Jones (E. M.), Kany, Karn, Kelly (A.), Kelly (W.), Knox, Leavell, Levy, Loop, Loper, Lufkin, Lynn (C.), Marks, Meisburger, Mershon, Metz (K.), Mills (R. H.), Mimmack, Moen, Nachazel, Nuckolls, O'Farrell, O'Hearn, O'Leary, Oggesen, Outlaw, Pankow, Peterson, Pfeiffer, Platt, Postle, Richards, Roberts (Z.), Robertson, Rohde (F.), Samuel, Sand, Sargeant, Sawyer, Schaefer (F. W.), Schultz, Smith (W. W.), Snapp, Starr (E.), Starr (F.), Swanson (E.), Tartre, Teuscher, Thorn, Tiblier, Todd, Turnquist, Underwood, Van Natta, Varnado, Wainwright, Wakefield, Waltmon, Warburton, Wekenman, Welch, West (C.), Westfall, Whinery, Williams (A. T.), Winter (L.)—119.
Masters, McNerney, Mitchell (R.), Morris (G.), Murphy (E.), Nelson (E.), Pattishall, Peck, Penn, Preis, Preston, Rafferty, Redeman, Renfrow, Richison, Rogers (A.), Smith (L.), Snyder (L.), Spencer, Swanson (C.), Ulen, Voiers, Walton, Whitson, Wisan—81.


1944: Abbey, Adams (C.), Allen (C.), Allen (N.), Arnold (F.), Bland, Bomberger, Brennan, Bulbulian, Bull (T.), Cahn, Campbell, Cannon (H.), Conley (F.), Cooper (D.), Dalitsch, Davis (R.), Easton, Fiero, Harper (N.), Hauge, Isaacson, Jernall, Kroschel, Larned, Lusardi, MacGibbon, MacKinnon, Marshall (J.), Mayhall, Miller (J. S.), Nevitt, Orton, Paquin, Peavy, Prichard, Purcell (J.), Raasch, Schneider, Scroggie, Seyler, Shonfield, Smith (G.), Smith (W. S.), Snyder (O.), Steadman, Stewart, Sweeney, Taber, Tobias, Walters, Wells (B.), White (E.), Willits—54.


1947: Amundson, Anderson (P.), Arnold (E. K.), Ball (J.), Bell (A.),
Brooks (E.), Brophy, Brown (J. W.), Buhler, Callahan, Casey, Clark (C.), Clough, Cogley, Crum, DeYarman, Diehl, Duncan, Edwards (Z.), Fenner, FitzGerald (D.), Gibb, Glenn, Glascock, Goad, Grant (E. A.), Hamilton, Humiston, Jacobs, Kellner, Knauff, MacKnight, Maddox, Martin (B.), Miller (D.), Minges, Moriss (J.), Neuber, Padelford, Pallardy, Perry, Pincock, Reid, Ritsert, Rochon, Romnes, Salmon, Sandman, Schopper, Sebald Speidel, Stevens, Stransky, Templeton (L.), Thompson (Edw. C.), Tilden, Walter, Webster (R.), Westhoff, Williams (P.), Worman—61.

3. DECEASED FELLOWS

Charles L. Alexander, '28
Charles C. Allen, '22
Charles F. Ash, '22
Percy Ash, '38
D. D. Atkinson, '22
Chas. R. Baker, '22
John H. Baldwin, '23
N. Talley Ballou, '37
Arthur D'Alanson Barber, '33
Lafayette L. Barber, '23
Alexander E. Bard, '32
Albert M. Barker, '33
Leland Barrett, '29
Thomas J. Barrett, '21
Walter F. Barry, '35
Leo M. Baughman, '41
Clarence R. Benney, '39
Louis P. Berthel, '23
Theodore B. Beust, '28
*John F. Biddle, '21
**Arthur D. Black, '21
J. Cannon Black, '29
Roy E. Black, '32
R. Boyd Bogle, '23
Geo. A. Bowers, '32
Shirley M. Bowles, '28
Charles A. Brackett, '22
Frank T. Breene, '26
E. Fred Briggs, '39
Charlotte, N. C.
Kansas City, Mo.
New York, N. Y.
Sydney, Australia
Brunswick, Ga.
Davenport, Ia.
Louisville, Ky.
Richmond, Va.
Ogden, Utah
Toledo, Ohio
Tucson, Ariz.
San Jose, Calif.
New York, N. Y.
Newark, N. J.
Los Angeles, Calif.
Army—regular
Columbus, Ohio
Louisville, Ky.
Pittsburgh, Pa.
Chicago, Ill.
Chicago, Ill.
Huntington, Pa.
Nashville, Tenn.
Nashua, N. H.
Laguna Beach, Calif.
Newport, R. I.
Iowa City, Iowa
Bangor, Maine
October 13, 1933
July 16, 1930
January 25, 1938
July 21, 1944
January 14, 1924
March 7, 1940
January 20, 1929
July 22, 1947
December 27, 1944
November 23, 1929
August 19, 1941
December 22, 1938
March 7, 1945
December 20, 1930
July 5, 1942
February 21, 1944
November 30, 1946
January 17, 1936
November 24, 1937
January 19, 1926
December 7, 1937
January 28, 1947
March 7, 1942
May 25, 1941
December 18, 1935
September 23, 1945
March 20, 1927
October 15, 1931
March 31, 1944
REGISTER OF MEMBERSHIP

I. Norman Broome, ’34
Truman W. Brophy, ’21
J. H. Brown, ’38
Robert K. Brown, ’32
Wm. Wiley Brown, ’38
Elwyn R. Bryant, ’37
*John P. Buckley, ’21
David Clare Budge, ’29
George K. Burgess, ’30
*Harvey J. Burkhart, ’21
John H. Cadmus, ’29
H. Wood Campbell, ’25
Eben J. Carey, ’39
Thos. E. Carmody, ’30
Calvin S. Case, ’23
James E. Chace, ’34
David Theodore Chase, ’37
James Francis Clark, ’34
Stanley W. Clark, ’33
W. R. Clark, ’23
Wm. Neal Cogan, ’28
Charles D. Cole, ’35
**John V. Conzett, ’21
Augustus R. Cooke, ’23
Willis A. Coston, ’22
Arthur J. Cottrell, ’33
Albert W. Crosby, ’36
Frederick C. Curtis, ’43
Frank H. Cushman, ’32
Levitt E. Custer, ’22
William D. Cutter, ’37
David S. K. Dai, ’43
W. L. Darnall, ’33
S. E. Davenport, Sr., ’32
W. S. Davenport, Sr., ’26
DeForest Davis, ’39
Horace M. Davis, ’24
Lyndall L. Davis, ’27
Robert L. Davis, ’38

Chicago, Ill.
Newton, Miss.
Ann Arbor, Mich.
Joplin, Mo.
New Haven, Conn.
N. Hollywood, Calif.
Logan, Utah
Washington, D. C.
Rochester, N. Y.
Chicago, Ill.
Suffolk, Va.
Milwaukee, Wis.
Denver, Colo.
Chicago, Ill.
Oscala, Fla.
Portland, Ore.
Pawtucket, R. I.
Chicago, Ill.
Clear Lake, Iowa
Washington, D. C.
Washington, D. C.
Dubuque, Ia.
Syracuse, N. Y.
Kansas City, Mo.
Knoxville, Tenn.
New Haven, Conn.
San Jose, Calif.
Boston, Mass.
Dayton, Ohio
Chicago, Ill.
Chengtu, China
Washington, D. C.
New York, N. Y.
Paris, France
Cleveland, Ohio
Baltimore, Md.
Chicago, Ill.
Woonsocket, R. I.

March 23, 1941
February 3, 1928
March 4, 1947
March 28, 1944
April 23, 1945
October 2, 1942
May 14, 1942
June 22, 1947
July 2, 1932
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March 17, 1943
January 3, 1924
January 22, 1942
December 14, 1946
April 29, 1941
June 7, 1934
February 26, 1938
August 8, 1940
February 8, 1935
February 25, 1937
March 22, 1941
Thos. J. Davis, '38  
Roscoe A. Day, '36  
Frank H. Dean, '24  
James W. Deaton, '38  
W. H. DeFord, '32  
Frank A. Delabarre, '28  
Arthur Pue Dixon, '38  
Charles L. Drain, '34  
Forrest G. Eddy, '22  
Lewis W. Ender, '35  
Chas. J. R. Engstrom, '30  
Alfred Enloe, '38  
Simon Eschelman, '23  
George Evans, '27  
Walter Earle Fancher, '39  
Edwin L. Farrington, '29  
Luther A. Faught, '28  
Josia G. Fife, '33  
Hugo G. Fisher, '28  
E. J. Fitzgerald, '38  
Clinton T. Fleetwood, '43  
Lynn A. Fonner, '38  
Lewis E. Ford, '22  
Sheppard W. Foster, '21  
Milburn Matthew Fowler, '46  
H. Edmund Friesell, '21  
Jos. H. Fullenwider, '29  
Donald M. Gallie, Sr., '24  
C. Fred GaNun, '40  
Oren Henry Gaver, '31  
Royal B. Giffen, '27  
William A. Giffin, '21  
Steele F. Gilmore, '32  
Nye White Goodman, '31  
Hart J. Goslee, '23  
Frank A. Gough, '26  
Horace P. Gould, '23  
Louis Graham, '22  
Wm. Conrad Graham, '30  
St. Louis, Mo.  
San Francisco, Calif.  
Texarkana, Ark.  
Des Moines, Ia.  
Boston, Mass.  
Cumberland, Md.  
Iowa City, Ia.  
Buttonwoods, R. I.  
LaCrosse, Wis.  
Los Angeles, Calif.  
Atlanta, Ga.  
Buffalo, N. Y.  
New York, N. Y.  
Yonkers, N. Y.  
Lowell, Mass.  
Orange, Tex.  
Chicago, Ill.  
Boothbay Harbor, Me.  
Seattle, Wash.  
Ft. Wayne, Ind.  
Los Angeles, Calif.  
St. Petersburg, Fla.  
Chevy Chase, Md.  
Pittsburgh, Pa.  
Louisville, Ky.  
Wilmette, Ill.  
New York, N. Y.  
Baltimore, Md.  
Sacramento, Calif.  
Detroit, Mich.  
Princeton, Ind.  
Los Angeles, Calif.  
Chicago, Ill.  
Brooklyn, N. Y.  
Brooklyn, N. Y.  
San Francisco, Calif.  
Columbus, Ohio  
March 13, 1943  
June 28, 1939  
September 10, 1934  
July 14, 1942  
March 22, 1932  
April 15, 1938  
August 5, 1947  
June 5, 1937  
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October 27, 1947  
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July 3, 1929  
July 15, 1932  
June 26, 1945  
May 31, 1930  
August 15, 1938  
April 4, 1928  
February 19, 1932  
February 15, 1945
<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clarence J. Grieves, '21</td>
<td>Baltimore, Md.</td>
<td>November 4, 1927</td>
</tr>
<tr>
<td>Thos. L. Grisamore, '23</td>
<td>Chicago, Ill.</td>
<td>October 16, 1939</td>
</tr>
<tr>
<td>Carl J. Grove, '34</td>
<td>St. Paul, Minn.</td>
<td>July 5, 1942</td>
</tr>
<tr>
<td>Frederick T. Guild, '37</td>
<td>Providence, R. I.</td>
<td>May 1, 1941</td>
</tr>
<tr>
<td>Frederic T. Haberle, '38</td>
<td>Chicago, Ill.</td>
<td>November 9, 1943</td>
</tr>
<tr>
<td>John M. Hale, '24</td>
<td>Mt. Vernon, Ind.</td>
<td>March 2, 1946</td>
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<tr>
<td>Charles W. Hall, '23</td>
<td>Milwaukee, Wis.</td>
<td>June 10, 1936</td>
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<tr>
<td>Albert Hallenberg, '34</td>
<td>Fargo, N. Dak.</td>
<td>November 17, 1940</td>
</tr>
<tr>
<td>Frank A. Hamilton, '26</td>
<td>Indianapolis, Ind.</td>
<td>September 3, 1937</td>
</tr>
<tr>
<td>Madeson C. Harris, '36</td>
<td>Eugene, Ore.</td>
<td>November 12, 1947</td>
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<tr>
<td>John F. Hasbrouck, '24</td>
<td>Pasadena, Calif.</td>
<td>October 13, 1945</td>
</tr>
<tr>
<td>Wm. Haussmann, '32</td>
<td>West Bend, Wis.</td>
<td>October 8, 1943</td>
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<tr>
<td>Charles A. Hawley, '27</td>
<td>Washington, D. C.</td>
<td>July 22, 1929</td>
</tr>
<tr>
<td>Milo Hellman, '29</td>
<td>Far Rockaway, N. Y.</td>
<td>May 11, 1947</td>
</tr>
<tr>
<td>Frederic R. Henshaw, '22</td>
<td>Indianapolis, Ind.</td>
<td>May 27, 1938</td>
</tr>
<tr>
<td>Frank W. Hergert, '29</td>
<td>Seattle, Wash.</td>
<td>August 31, 1937</td>
</tr>
<tr>
<td>John D. Hertz, '40</td>
<td>Stamford, Conn.</td>
<td>November 26, 1943</td>
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<tr>
<td>Frank O. Hetrick, '22</td>
<td>Ottumwa, Kansas</td>
<td>May 17, 1934</td>
</tr>
<tr>
<td>Finis Marlin Hight, '31</td>
<td>Houston, Tex.</td>
<td>August 6, 1939</td>
</tr>
<tr>
<td>DeLos L. Hill, '23</td>
<td>Atlanta, Ga.</td>
<td>May 7, 1931</td>
</tr>
<tr>
<td>Ellison Hillyer, '23</td>
<td>Brooklyn, N. Y.</td>
<td>May 3, 1943</td>
</tr>
<tr>
<td>Frederick W. Hinds, '32</td>
<td>Dallas, Tex.</td>
<td>June 4, 1943</td>
</tr>
<tr>
<td>*Thomas P. Hinman, '21</td>
<td>Atlanta, Ga.</td>
<td>March 19, 1931</td>
</tr>
<tr>
<td>A. Hugh Hipple, '21</td>
<td>Omaha, Neb.</td>
<td>July 29, 1933</td>
</tr>
<tr>
<td>N. S. Hoff, '22</td>
<td>Ann Arbor, Mich.</td>
<td>December 1, 1926</td>
</tr>
<tr>
<td>Thos. A. Hogan, '30</td>
<td>Pittsburgh, Pa.</td>
<td>July 17, 1930</td>
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<tr>
<td>J. A. C. Hogan, '23</td>
<td>Richmond, Va.</td>
<td>February 28, 1928</td>
</tr>
<tr>
<td>Edgar Allen Honey, Sr., '38</td>
<td>Kalamazoo, Mich.</td>
<td>April 13, 1947</td>
</tr>
<tr>
<td>William Hopkinson, '24</td>
<td>Milwaukee, Wis.</td>
<td>July 23, 1941</td>
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<tr>
<td>David A. House, '24</td>
<td>Indianapolis, Ind.</td>
<td>January 8, 1933</td>
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<tr>
<td>Edward J. Howard, '32</td>
<td>San Francisco, Calif.</td>
<td>November 16, 1931</td>
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<tr>
<td>Eugene Bond Howle, '30</td>
<td>Raleigh, N. C.</td>
<td>June 23, 1942</td>
</tr>
<tr>
<td>Claude Newton Hughes, '38</td>
<td>Atlanta, Ga.</td>
<td>March 8, 1938</td>
</tr>
<tr>
<td>Dudley C. Hughes, '38</td>
<td>New York, N. Y.</td>
<td>May 4, 1942</td>
</tr>
<tr>
<td>Alfred O. Hunt, '27</td>
<td>Omaha, Neb.</td>
<td>January 12, 1934</td>
</tr>
<tr>
<td>R. G. Hutchinson, Jr., '24</td>
<td>Essex Falls, N. J.</td>
<td>September 23, 1945</td>
</tr>
<tr>
<td>W. E. Hutchison, '38</td>
<td>Little Rock, Ark.</td>
<td>September 11, 1942</td>
</tr>
</tbody>
</table>
Victor H. Jackson, '21
Albert Wade Jarman, '31
*Chas. N. Johnson, '21
H. Herbert Johnson, '23
John Norborn Johnson, '30
Ralph Bullock Jones, '38
H. Leonidas Keith, '37
Henry Allen Kelley, '29
*C. Edmund Kells, '21
Oather A. Kelly, '37
Harry E. Kelsey, '22
Frederick C. Kemple, '38
Albert H. Ketcham, '30
Charles S. Kramer, '30
Otto G. Krause, '27
Charles Lane, '26
Arthur C. LaTouche, '23
Harry E. Latcham, '33
Charles R. Lawrence, '33
Harry Comegys Lawton, '38
Alfred P. Lee, '23
Albert Leland LeGro, '26

New York, N. Y.
Chicago, Ill.
Crescent, Ga.
Goldsboro, N. C.
Willimantic, Conn.
Wilmington, N. C.
Portland, Maine
New Orleans, La.
St. Louis, Mo.
Baltimore, Md.
New York, N. Y.
Denver, Colo.
Colorado Spgs., Colo.
Milwaukee, Wis.
Detroit, Mich.
Los Angeles, Calif.
Baltimore, Md.
Enid, Okla.
St. Paul, Minn.
Grosse Point Farm, Mich.
Rochester, N. Y.
Mt. Olivet, Ky.
Chicago, Ill.
Paterson, N. J.
Chester, Pa.
Ann Arbor, Mich.
Detroit, Mich.
San Francisco, Calif.
Macon, Ga.
Providence, R. I.
El Monte, Calif.
Minneapolis, Minn.
San Francisco, Calif.
Chicago, Ill.
Detroit, Mich.
San Francisco, Calif.

January 26, 1929
May 20, 1933
July 17, 1938
May 23, 1937
December 2, 1946
May 9, 1941
July 29, 1938
February 21, 1945
May 7, 1928
September 11, 1942
March 1, 1946
May 21, 1938
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July 30, 1941
January 31, 1940
April 28, 1938
May 10, 1938
August 20, 1941
August 6, 1940
January 29, 1946
April 8, 1940
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July 12, 1933
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May 18, 1935
April 23, 1940
May 7, 1941
March 29, 1946
December 27, 1945
April 12, 1946
March 19, 1932
January 23, 1940
July 16, 1934
September 12, 1939
May 14, 1938
Horace G. Meek, '45
George H. Means, '25
Louis Meisburger, '22
George H. Mengel, '32
Clinton T. Messner, '29
Herbert C. Miller, '23
George E. Mitchell, '23
J. N. C. Moffat, '31
George S. Monson, '22
Claude A. Moore, '38
W. D. M. Moore, '27
John Maxwell Murphy, '32
Harold J. Nelson, '43
Llewellyn G. Noel, '23
J. Emmett Northcutt, '38
Edmund Noyes, '23
Robert Todd Oliver, '26
Forrest H. Orton, '24
Leland Ray Packwood, '38
Addison K. Parks, '38
Alexander H. Paterson, '25
John D. Paterson, '27
J. G. Pattison, '39
John L. Peters, '23
Henry H. Piper, '32
Frank L. Platte, '26
William H. Potter, '26
William B. Power, '29
Merle M. Printz, '25
James H. Prothero, '23
Herbert A. Pullen, '32
G. A. Rawlings, '25
Harry J. Ray, '34
Frank B. Rhobotham, '29
Charles E. Rice, '28
William Rice, '27
Walter H. Richardson, '23
U. G. Rickert, '23
John M. Ridley, '38
Oakland, Calif.
Louisville, Ky.
Buffalo, N. Y.
El Paso, Tex.
Washington, D. C.
Newport, Ore.
Haverhill, Mass.
Memphis, Tenn.
St. Paul, Minn.
Lexington, Miss.
Chicago, Ill.
Temple, Tex.
Fergus Falls, Minn.
Nashville, Tenn.
Kansas City, Mo.
Chicago, Ill.
Washington, D. C.
San Francisco, Calif.
Fresno, Calif.
Memphis, Tenn.
Baltimore, Md.
Kansas City, Mo.
Rochester, Minn.
New York, N. Y.
West Medford, Mass.
Berkeley, Calif.
Boston, Mass.
Seattle, Wash.
Chicago, Ill.
Chicago, Ill.
Buffalo, N. Y.
Bismarck, N. D.
Aiken, S. C.
Chicago, Ill.
Los Angeles, Calif.
Boston, Mass.
Ann Arbor, Mich.
El Paso, Tex.
November 19, 1946
November 9, 1942
August 10, 1927
February 14, 1932
May 28, 1936
December 20, 1947
August 23, 1934
August 14, 1933
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October 11, 1941
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March 28, 1927
July 11, 1937
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April 9, 1942
June 27, 1927
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March 29, 1940
February 10, 1934
April 8, 1929
February 17, 1935
April 16, 1933
June 27, 1936
May 30, 1934
February 5, 1935
November 23, 1932
May 9, 1940
October 21, 1938
November 7, 1947
W. M. Robey, ’38
Fernando E. Rodriguez, ’33
Ernest Albert Rogers, ’34
Albert R. Ross, ’23
Louis Rossman, ’38
Arthur T. Rowe, ’34
Joseph Samuels, ’32
Adolph Robt. Schmid, ’38
John V. Scholten, ’32
Wallace Seccombe, ’21
Jas. H. Shaw, ’40
L. Langdon Sheffield, ’40
Clyde C. Sherwood, ’31
Harry B. Shuman, ’39
Samuel L. Silverman, ’22
Richard Lee Simpson, ’29
Arthur G. Smith, ’26
Guy L. Spencer, ’38
Jas. Frederick Spencer, ’41
Alfred R. Starr, ’23
Fred A. Stevenson, ’27
Paul R. Stillman, ’23
Edward F. Sullivan, ’32
Burt S. Sutherland, ’28
Herbert S. Sutphen, ’23
Archibald C. Thompson, ’28
Walter G. Thompson, ’30
George K. Thomson, ’26
A. W. Thornton, ’21
A. W. Titus, ’34
Wm. Dwight Tracy, ’23
Geo. S. Vann, ’26
Frank T. Van Woert, ’23
C. Victor Vignes, ’23
Wm. Wallace Walker, ’23
Eugene R. Warner, ’22
F. H. Waters, ’30
Harry L. Watson, ’32
Clarence V. Watts, ’27
Charlotte, N. C.
Washington, D. C.
Carr, Colo.
Lafayette, Ind.
Baltimore, Md.
New York, N. Y.
Providence, R. I.
Worthington, Minn.
Cedar Rapids, Iowa
Toronto, Canada
St. Petersburg, Fla.
Toledo, Ohio
Toledo, Ohio
Boston, Mass.
Atlanta, Ga.
Richmond, Va.
Tryon, N. C.
Lincoln, Neb.
Grand Rapids, Mich.
New York, N. Y.
Montreal, Canada
Longwood, Fla.
Boston, Mass.
Owosso, Mich.
Sparta, N. J.
Detroit, Mich.
Hamilton, Canada
Halifax, N. S.
Montreal, Canada
Eugene, Ore.
New York, N. Y.
Gadsden, Ala.
New York, N. Y.
New Orleans, La.
New York, N. Y.
Denver, Colo.
Ames, Ia.
Manchester, N. H.
Des Moines, Ia.
July 10, 1938
October 21, 1932
June 4, 1947
May 13, 1938
April 2, 1940
December 12, 1935
February 12, 1939
January 22, 1947
March 8, 1938
January 16, 1936
October 21, 1942
June 4, 1947
July 5, 1942
November 1, 1946
October 7, 1934
July 1, 1947
July 24, 1936
July 15, 1943
May 16, 1947
October 27, 1924
August 9, 1934
December 15, 1945
March 26, 1938
October 23, 1931
April 20, 1939
March 22, 1939
January 9, 1939
May 2, 1935
February 11, 1931
July 29, 1941
February 11, 1937
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April 1, 1944
June 14, 1925
March 28, 1936
July 6, 1937
March 1, 1936
July 25, 1943
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<td>T. Irving Way, '32</td>
<td>Cincinnati, Ohio</td>
<td>March 16, 1945</td>
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<td>Albert Edw. Webster, '22</td>
<td>Toronto, Canada</td>
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<td>E. K. Wedelstaedt, '22</td>
<td>St. Paul, Minn.</td>
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<td>Sydney, Australia</td>
<td>February 26, 1933</td>
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<td>Herbert L. Wheeler, '22</td>
<td>New York, N. Y.</td>
<td>March 23, 1929</td>
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<td>Arthur C. Wherry, '31</td>
<td>Salt Lake City, Utah</td>
<td>December 26, 1944</td>
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<td>Jesse Duncan White, '23</td>
<td>St. Louis, Mo.</td>
<td>September 16, 1941</td>
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<td>J. Leon Williams, '24</td>
<td>New York, N. Y.</td>
<td>February 22, 1932</td>
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<td>George H. Wilson, '21</td>
<td>Cleveland, Ohio</td>
<td>April 12, 1922</td>
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<td>George W. Wilson, '29</td>
<td>Milwaukee, Wis.</td>
<td>November 11, 1947</td>
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<td>H. Reid Conley Wilson, '38</td>
<td>Cleveland, Ohio</td>
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<td>George B. Winter, '23</td>
<td>St. Louis, Mo.</td>
<td>March 28, 1940</td>
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<td>Allen Scott Wolfe, '29</td>
<td>Washington, D. C.</td>
<td>September 29, 1945</td>
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<td>Craig M. Work, '32</td>
<td>Ottumwa, Iowa</td>
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<td>Arthur Everett Wrigley, '45</td>
<td>Eureka, Calif.</td>
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<td>Albert M. Wright, '23</td>
<td>Troy, N. Y.</td>
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<td>Arthur H. Yando, '40</td>
<td>Bethesda, Md.</td>
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<td>J. Lowe Young, '29</td>
<td>New York, N. Y.</td>
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<td>R. C. Young, '38</td>
<td>Anniston, Ala.</td>
<td>March 12, 1938</td>
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<td>William Andrew Young, '37</td>
<td>Concord, N. H.</td>
<td>January 16, 1946</td>
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BOOK REVIEW

Clinical Dental Roentgenology: A text on Technique and Interpretation by McCall, John Oppie, D.D.S., and Wald, S. S., D.D.S.; this is a book of 343 pages including an index, 1180 illustrations and 415 pictures. Published by W. B. Saunders Co., price $6.75.

Complete Dentures: This is a 2nd Edition of a text by Swenson, M. G., D.D.S., recently Professor of Prosthetic Dentistry, New York University, but lately, University of Oregon, School of Dentistry. It consists of 726 pages with index and 882 illustrations in color. Published by C. V. Mosby Co., St. Louis, price $12.50.

Operative Dentistry, American Textbook of: Edited by Gabel, Arthur B., D.D.S., M.A., Professor of Operative Dentistry, School of Dentistry, University of Pittsburgh. This is the 8th Edition of this American Textbook, thoroughly revised, carrying 438 illustrations, with index, contents and preface, consisting of 674 pages. It is edited by a new Editor and many new contributors, all of whom are well known within the dental field, and are men who can speak with authority. This book is prepared in a very satisfactory manner and in line with present day thought in the development of a subject, namely, the preface tells the story in narrative form. The body of the text is provided by the contributors, followed by a very complete supplementary reading list on the various subjects and an appendix by the Editor. It is admirably bound, well printed and makes a splendid presentation. Published by Lea & Febiger, price $11.00.

Dental Prosthetic Laboratory Manual: This manual is designed by the author, Boucher, Carl O., D.D.S., Professor of Prosthetic Dentistry, Ohio State University, College of Dentistry, for student use as a laboratory guide. It is well illustrated, coming at a time that a revised manual is essential. It is published by C. V. Mosby Co., price $4.50.

Dentistry for Children: This is a revised text under the authorship of Brower, John C., D.D.S., A.B., M.Sc., but extended and
including chapters by various authors in this issue, all of whom are well known researchers in the dental field. It consists of two parts: (1) Fundamental Considerations and (2) Technical Procedures in the Practice of Dentistry for Children. It consists of 417 pages with 263 illustrations, including an index and preface. It should serve a useful purpose. Published by the Blakiston Co., Philadelphia, price $8.50.

Pharmacology and Pharmaco-Therapeutics for Dentists: This text is by McGehee, Wm. H. O., M.D., D.D.S., Professor of Operative Dentistry, New York University, College of Dentistry, and Green, M. W., PhG., B.S., Ph.D., Director of Laboratory, American Pharmaceutical Association. It is the 3rd Edition, consisting of 556 pages with an index, therapeutic and an appendix. Published by the Blakiston Co., Philadelphia, price $6.50.

Your Teeth and How to Keep Them, by Miller, Jerome J., D.D.S., former Assistant Professor of Oral Surgery, New York University, College of Dentistry, with an introduction by Wells, C. Raymond, D.D.S., Sc.D., Past President, A.D.A., etc. This is a book of some 232 pages with an index and glossary, charts and diagrams, and 45 illustrations, designed primarily for the layman, although it includes a great many valuable thoughts for the dentist himself. Published by Lantern Press, Inc., New York 10, N. Y., price $3.00.

Dental Education and Licensure—1947: This is in reality the Proceedings of the Third Congress on Dental Education and Licensure, conducted by the Council on Dental Education of the American Dental Association in Chicago, February 8, 1947. It may be secured through the Council or the American Dental Association.

Handbook for Discussion Leaders: By Auer, J. J., Assistant Professor of Speech, Oberlin College, and Ewbank, H. L., Professor of Speech, University of Wisconsin. This book covers its subject in splendid form, suggesting particularly the number of different kinds of Forums under which subjects may be considered, as well as thought given to the qualifications of the leader himself. Published by Harper and Brothers, New York, price $2.50.
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