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**Dental Students Association** 

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# d.s.a. CONTRA

Volume II

September 1960

Number 1

## Welcome to What!

### A MESSAGE FROM

Now that a new school year has begun and campus dental activity is ascending to its peak of performance let me insert a September welcome to both new and old students

before we get bogged down to routine.

Welcome to the Dental Students Association. You ask, "what is this organization and why does it exist." We of the DSA maintain three objectives: 1. Scientific, 2. Social, and 3. Missionary. With the scientific objective we try to stimulate interest in current scientific development and attendance at recognized scientific meetings; to encourage sound scientific objectives at the School of Dentistry of the College of Medical Evangelists and to inspire other members by personal enthusiasm to attain high professional standards, the establishment of study clubs, postgraduate courses, and original contribution to the profession of dentistry. Under the social objective we try to encourage attendance at the social functions of DSA and its parent NASDAD organization. The missionary objective tries to stimulate interest in the missionary objectives of the National Association of Seventh-day Adventist Den-

We are an organization whereby the dental students of the School of Dentistry of the College of Medical Evangelists can be bound under one common cause and purpose

in fulfilling our professional ideals.

Let me tell you of some of our many plans for the new school year. To you new students dentistry at this point appears awesome, piled high with anatomical and biochemical obstacles, while playtime of mini-sculpture at the haven of the School of Dentistry is quite enjoyable. But still only after a week and a half of new material you already feel snowed under. But have no fear your "buddy" is near. Yes this school year as has been carried on in the past we plan on maintaining a "Buddy System" whereby a Senior dental student is assigned to a Sophomore and a Junior is assigned to a Freshman dental student in order that the underclassmen can progress more smoothly toward their professional careers in Dentistry.

A new bulletin board will be placed in the Student Lounge which will exhibit your "buddy." This bulletin board will also exhibit an organizational chart so that a student may bring his burdens directly to the individual responsible for accepting them. There will also be current announcements and a calendar of events posted there.

Before progressing too far with my chatter let me introduce the executive committee of the DSA:

President	Robert Peshek '61
Vice President	Dean Bonlie '62
Sec'y-Treas.	Veryl Drury '62
Contrangle Editor	Norman Markusssen '62
Publicity	Lawrence McEwen '62
Advisor	Dr. Byrd

President Peshek



All of these individuals have been introduced to you so feel free to approach them with your problems and suggestions.

A totally student sponsored and operated Dental Welfare Clinic has been in operation at CME for the past nine months. Long in the planning stage, the whole program began the second Sunday of January 1960. Through cooperation with the San Bernardino County Welfare Department patients eligible for this free service are directed to the Dental Clinic on the second Sunday of each month. Voluntary student, faculty and office personnel have efficiently and effectively handled emergency dental care for these less fortunate residents of the county.

Chairman Marshall Miller reports that to date we have given this free service to 256 patients, have placed 374 amalgam restorations and made 319 extractions besides

numerous other operations.

We hope to continue the present service through this new school year and expand it to include dental health education for these people. As the program expands we expect to serve more spiritual as well as physical aid. The continual help of all students, faculty and office personnel is urgently needed to make this program the success it should and will be.

(continued on page 4)

#### d.s.a. CONTRANGLE

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Volume II	September 1960	Number 1
Editor	Norman F	P. Markussen '62
Contributors	Dr. Smith, Dr. Prince,	
	Marshal Miller, Richard Smit	th, Robert Peshek

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#### **CURRENT CONCEPTS**

## Caries . . . An Insight

Ralph R. Steinman, D.D.S.

That the teeth are derived from two embryological layers is well known. These two tissues, the enamel and the dentin though calcified, are as dependent upon each other as the epithelium is to its supporting connective tissue. The enamel serves as the protective covering while the dentin supports the enamel mechanically and is the tissue in which the major portion of metabolism occurs. Isotope studies show that there is more activity in the dentin than in the enamel and also that there is more activity in the teeth of younger animals than older animals. The importance of the dentinal support to the enamel becomes more clear as a better understanding of the pathology of caries is obtained. Pathology usually occurs in depth and usually occurs in a sequence of events which may terminate in necrosis, bacterial invasion, and sloughing. These generalities are also true for caries.

Studies with germfree animals and other studies conducted at the National Institutes of Health as well as the histochemical changes which occur in the teeth preceding cavitation would indicate that in all probability this disease is caused by streptococcus organisms. This organism is very versatile and is able to produce a variety of noxious agents with which to attack the host. It produces enzymes, toxins, and acids, all of which it may use effectively upon a tooth of lowered resistance.

From animal experimentation it appears that the teeth are not fully mature when they erupt. The appear to mature from within out. The immature areas are more permeable to outside molecules and it so happens that the depth of the grooves are quite immature at this time. In these same areas bacteria and food accumulate. Within a few days bacterial products are having a baleful effect in a considerable depth upon the maturing tooth. It appears that enzymes and toxins are the first agents with which the bacteria attack the tooth. The enzymes increase permeability thus making the area more vulnerable to other noxious agents. The toxins seem to stop or markedly inhibit the normal enzyme activity in the dentin at the dentino-enamel junction. There is also a breakdown of the mucopolysaccharides in the area and a partial demineralization of the dentin, presumably from the acids produced from the hydrolysis of the mucopolysaccharides. All of these changes occur on a broad front in the dentin just beneath the enamel within a week after eruption of the tooth. The support and maintenance of the overlying enamel can no long-

### Student Dental Convention

Something new in the presentation of the annual table clinic displays will be introduced this spring. The DSA is going all out to make this the highlight day of the school year. Plans are being formulated now where all students will be able to participate. There will be two separate competitions for big awards. One group will compete for the ADA all expense paid trip to the Miami Beach, Florida ADA Convention in the fall of 1961 to present his winning table clinic. The second group will be devoted to those who do not care to compete for the ADA award. These table clinics will include research project hobbies and any other special dental interest.

Five awards will be given away in each group amounting to \$500.00, not including the first place ADA award.

The supply houses will present their displays on the same day instead of on separate days throughout the school year.

Guest speakers will be heard throughout the day.

A date is being planned so the Alumni Day and the table clinics will be on the same day. This way the Alumni can observe the progress of the school and the student skills and research activities on one large convention day.

Junior Dental Convention Day will be a success only if the student body gives its full support by planning now to present a table clinic next spring.

Dentistry today is being developed along biological lines with mechanics the servant rather than the master of biological principles.

Dr. Leroy M. S. Miner, Dean, Harvard Dental School

er be continued. This tissue, the enamel, is now subject to bacterial invasion, necrosis, and sloughing. It is this latter process in which acids are utilized in the destruction of tooth structure. Demineralization is largely a surface phenomena. The acids being neutralized by the nearest mineral salt as fast as it is formed.

A review of the literature concerning streptococcus and the resistance of the body to this pathologic organism will reveal how adequate nutrition and resistance to infections are inseparable. The foundation of resistance rests upon adequate nutrition. This same general pattern has been shown to exist between caries and adequate nutrition. A number of nutrients by various workers have been shown to have an effect upon the incidence of caries. Animal studies have shown a close correlation between the incidence of caries and the general physical status of the animals through three generations.

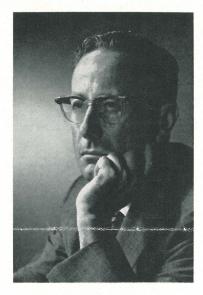
In a broader sense, stress of any kind may increase susceptibility to infection. This stress may be in the form of poor nutrition, endocrine imbalance, overwork, lack of rest, or a lack of fresh air and sunshine. Resistance is as complex as life. If infectious diseases are to be controlled the resistance of the host should be up to the point at which bacteria present on the surface of any part of the body will have no deleterious effect upon the host. To fulfill this ultimate goal of the professions requires nothing less than a way of life. It is far easier to keep man whole than to try to make man whole after the ravages of discare have played their part.

### IN . . .



. . as Dean





July 1, 1960 Dr. Charles T. Smith took over the responsibilities as Dean of the School of Dentistry.

Dr. Smith comes with a life time of familiarity with dentistry. His father before him demonstrated to young Charles the advantages and also the responsibilities of a professional man. This early influence resulted in his decision to make dentistry his life career.

Graduating from the College of Physicians and Surgeons in San Francisco in 1940, he returned to his home city of San Diego to practice. There he conducted a successful practice until 1953 at which time Uncle Sam's military organization required his services. After two years as Major in the Dental Corps at Fort Bliss, El Paso, Texas he returned to his practice in San Diego and progressed to greater achievements.

In September 1957, Dr. Smith was invited to connect with the College of Medical Evangelists as Instructor in Restorative Dentistry on a part-time basis. This responsibility he continued to carry until the invitation came to accept the Deanship.

The past year has been spent at the University of Michigan preparing for the administrative duties he now takes over.

Dr. Smith is well known in dental circles in Southern California. He is past President of the San Diego Dental Society and past chairman of the Council on Dental Health of the Southern California State Dental Association; also he is a Fellow of the American College of Dentists.

We welcome Dr. Smith to the position he now holds and know that with his inner drive and idealisms the School of Dentistry will achieve greater scholastic heights and reach new goals in its training program.

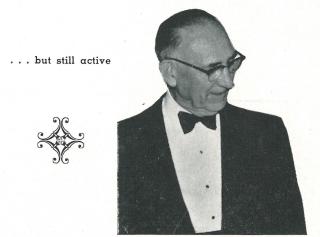
In California, a woman charged in divorce court that her husband was so stingy he insisted on her wearing his old false teeth.

### . . OUT . .

On June 30, 1960 Dr. M. Webster Prince set aside his responsibilities as Dean of the School of Dentistry. He has by no means laid aside his interest in the Dental School however as he is and has been one of the standard bearers in the development of our school from its earliest beginning.

Dr. Prince graduated in 1910 from the University of Michigan and has been active in organized dentistry since that time. Those in Detroit know him as an aggressive young man who carried forth his practice in a manner which made other professional men envious, not only of his ability but also of his professional standards. He returned to school frequently for post-graduate work and to continue his professional growth.

Dr. Prince became active in dental politics and was instrumental in establishing an exclusive study club—the first in the city of Detroit. In 1935 he was elected to the



Council on Dental Education of the American Dental Association. He filled this post during the most trying times of reorganization, accreditation and inspection of the Dental Schools of America. Dr. Prince resigned this position to accept an appointment offered by the General Conference of Seventh-day Adventists to become Dean of the future School of Dentistry and be instrumental in developing this plant carrying it forth to completion.

Due to his untiring efforts we have today a Dental School on the Loma Linda Campus second to none. We are surely indebted for the leadership provided by him during the formative years.

We know that Dr. Prince will enjoy a respite from the heavy load that he carried here at the school, and we all wish him God's speed in his new venture as an agriculturist.

### WELCOME . . . (continued from page 4)

School of Dentistry, to the membership of the Dental Students Association is not one of words alone. We have the activities available and we only need the students to be active and take advantage of these oportunities we hold before you. Welcome again to all of you to a school year of successful studies, meetings, socials, table clinics, and welfare activities.

### THE DENTIST AND HIS GOD Christ . . . the Centrosome

By Arthur L. Bietz, Ph.D.

When men casually toss about the idea of a Christ, intimating that He can be taken or left—at random—without making much difference, they are taking far more upon themselves than they are able to handle. We cannot "take it or leave it" when it comes to Christ without upsetting our whole destiny. The only reason so many people today remain unfulfilled is simply because their life never encountered the real Christ. Without Him nothing takes on a recognizable shape, and the words of the poet Milton become very appropriate:

The pillared firmament is rottenness, And earth's base built on stubble.

The life void of Christ turns men into beasts and disjointed shambles of body as well as mind. The incapacity to find this centrosome of existence leads men to despair.

Strange views are held regarding why Jesus came to earth two thousand years ago. Some have said, in essence, that God had a difficult time loving human beings and so finally He sent His Son down here so that He could learn to love human beings by virtue of the fact that His own son had become human. There is no greater fallacy. God sent His Son into the world not so that He could love us; but God loved us, therefore He gave us His Son. "God so loved . . . that He gave" (John 3:16). It is just this simple, Christ's coming to this world added nothing to God's eternal love. This love was present from the foundation of the world.

The next logical question someone will pose is, "If this is true, then why did Jesus ever bother to take on this unpleasant experience here on earth? If it added nothing to God or His love, why did He come?" Let us think clearly and carefully on this question. No superficial answer can be given.

Christ redeems us by revealing the unity of God and man in His own person. He comes to show us what has always been true about God. In other words, Christ is an object lesson for all mankind to behold. He came to reveal the truth about God, but He did not come in order to

add something to God.

In succeeding where Adam failed, while starting at the very same point of departure, Christ touched man at every point of God-given potentiality. Here, today again, Christ meets every man. He must not be locked up in time and space, because He chose to come in time and space to reveal the timelessness of ultimate creative being and union with humanity. This union of the divine with the human is the real unity of being. As men come to understand the purpose of this union, their frustration, boredom, and purposelessness flee. Christ gives us a perfect revelation of true love.

In April, 1865, our Secretary of War, Edwin Stanton, rose from the bedside where he had been kneeling, pulled down the blind at the window to shut out the bright April

sunlight and then turning to look at the still form on the bed, said, "Now he belongs to the ages." Probably this is the best biography of Abraham Lincoln. But, in actuality, only Christ belongs to the ages in the true sense. He is alpha and omega. "Who shall declare His generation?" (Acts 8:33).

We cannot confine Him to a certain era, for His personality bridges the before and the hereafter. He belongs to the ages. He is the same yesterday, today and forevr. In Him the problems of like take on meaning. Chaos is exchanged for cosmos. Disorder tumbles into order; suffering and pain become bearable. The acknowledgement of God in Christ answers all questions.

### FROM THE EDITOR

Numerous readers may wonder why we as DSA need a monthly publication. The following is a list of the objective we hope it will fulfill:

1. To act as the official publication of the DSA.

2. To help unite all four dental classes and faculty in a common bond.

3. To help foster mature professional attitudes and philoso-

4. To nurture Christ-like attitudes of service and love for God, school and humanity.

5. To reveal latest concepts of CME dental reesarch.

We as an organization and I as your editor entreat your constructive criticisms as readers so that the Contrangle can be a more functional unit in the DSA. Your cooperation is greatly appreciated.

#### WELCOME . . . (continued from page 1)

Chairman of Physical Activities, Richard Smith is busy at work formulating recreational activities which will include competitive action in volley-ball, tennis, water polo, horseshoes and everything except possibly tiddly winks. But most important of all he plans on having two golf tournies, one beginning in October and the other during the spring. The one in October will be an 18 hole medal play best ball event with probably no handicap. The spring event will be an 18 hole medal play activity using the Calloway handicap system.

Most of the activities will be on a tournament basis which helps stimulate a competitive air. Remember that all physical activities are open to both students and faculty

members.

We of the DSA also maintain a men's chorus under the direction of Dr. Bo Ying Wat of the Pathology Department. Last school year this suborganization was one of our more active groups and one of our best advertising

So you can see that our welcome to Loma Linda, to the (continued on page 3)

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