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College of Medical Evangelists

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ALUMNI HOME-COMING

How many of us have often wondered how best to spend Memorial Day? This will no longer perplex us for the greatly anticipated Home-Coming is to be on this holiday. This is the major event of the year for our Association. There will be found activities of interest to every turn of mind. There will be scientific lectures and demonstrations by Drs. Wilburn Smith and Newton Evans from eleven to one o'clock. Then, before the picnic dinner, will be the famous baseball game—the Los Angeles Faculty vs. the Loma Linda Faculty. The business meeting consisting

of speeches, changes in by-laws, and election returns, will be held immediately following the dinner. At this point the senior class will be welcomed. Dr. Roger Barnes then will turn over the reins of government of the Association to Dr. Benton N. Colver, the new president, who is a graduate of the American Medical Missionary College, Class of 1904. The Alumni vs. Senior ball game at 3:30 is the last item scheduled on the program.

Our Home-Coming on Tuesday, May 30, will be full of action! Come and spend Memorial Day with us at Loma Linda!

ELECTIONS

By-Laws, Article VII, Section 2: A nominating committee consisting of not less than three nor more than five members of the Association shall be appointed by the President and approved by the Board of Directors at least two months prior to the Annual Meeting of members. This committee shall render its report to the Board of Directors at its regular meeting one month prior to the Annual Meeting.

By-Laws, Article VII, Section 3: Nominations for Directors of this Association may be made by any member other than of the Nominating Committee, provided such nomination is made in writing, bearing the written endorsement of at least five members in good standing, and submitted to the Board of Directors at its regular meeting one month prior to the Annual Meeting.

In accordance with Section 2, the Nominating Committee has submitted the following names as candidates for the Alumni Board: William C. Clough, Arthur R. George, Elmer Mortensen, Roy Shipley, Thomas S. Whitelock. According to Section 3, other nominations may be made by any member provided such nominations bear the written endorsement of at least five members in good standing. Article III, Section 8, reads: **GOOD STANDING:** No member shall be considered in good standing while he is delinquent in the payment of dues nor while charges of misconduct or infraction of the By-Laws or of the rules and regulations of the Association are pending against him.

Nominations should be in one month prior to the Annual Meeting, but in view of the fact that the Annual Meeting is one month earlier this year than has been in the past, nominations will be accepted at the Alumni Office up to May 12. Ballots will then be prepared and mailed out on May 15. These should be marked and returned to the Alumni Office immediately by mail or brought in person to the Annual Meeting at Loma Linda, May 30, when the ballots will be counted and the results of the election announced. Ballots received in the mail should not be discarded as it will not be possible to secure any others.

There are several minor changes in the By-Laws which it will be necessary to make at this time. These will also appear on the ballots which will be mailed out May 15. It is very important that these ballots be returned because there must be a majority vote on any changes to our By-Laws.

William Osler, in "A Way of Life," says: "Look heaven-ward, if you wish, but never to the horizon—that way danger lies. Truth is not there, happiness is not there, certainty is not there, but the falsehoods, the frauds, the quackeries, the *ignes fatui* which have deceived each generation—all beckon from the horizon and lure the men not content to look for the truth and happiness that tumble at their feet."

Additional Members Paying Dues or Becoming Sponsors Since the Issuance of the 1933 Directory

The single asterisk before a name indicates that the member has paid his \$3.00 dues for the fiscal year ending June 30, 1933.

The double asterisk shows that the member has contributed \$10 or more to the work of the Association for this fiscal year, and has thus become a sponsor.

Class	Name
1902	*Clarence F. Ball
1905	*Mayme Jefferies MacLafferty
1906	*Tell J. Berggren
1906	*Minnie Ethelyn Staines
1914	*Leroy M. White
1917	*Mary C. McReynolds
1922	**William J. Eckerle
1924	*Guy U. Frederickson
1924	**Homer B. Rickabaugh
1924	**Edward E. Rippey
1925	*Alton C. Atwood
1925	*Raymond L. Owens
1925	*Everett A. Sheldon
1925	*Lloyd E. Smith
1927	*Glen H. McDonald
1927	*William E. Westcott
1928	*Edward D. Quillen
1929	*Ashby E. Carter
1929	*Chester E. Cornell
1929	*Charles E. Westerhout
1930	*David M. Kindopp
1931	*Edwin B. Coyl
1931	*Herman F. Ermschlar
1932	*Benjamin Anderson
1932	*Mary F. Clark
1932	*Elisabeth Larsson
1932	*Palmer D. Miller
1932	*Clarence E. Stafford

This year, inasmuch as our Annual Meeting is to be held at Loma Linda on May 30, and being our treasury is so deplete that we are not able to pay our April and May bills, it is thought best to include with the ballot which will be sent each member on May 15, the statement for

the 1933-1934 Alumni dues. We trust that sending the statements a month and a half early will not work too great a hardship on any of our members. We believe they are interested enough in the Association to send in their \$3.00 dues immediately, and where possible, accompany this with a \$10.00 sponsorship check. The Alumni Association by means of the Directory, the Journal, the Placement Bureau, the Student-Faculty Association of the school, and hundreds of personal letters, is doing more for its members and the school than ever before, and we believe that it would meet with great disfavor if, because of lack of money, we should discontinue the work the Association is doing. We appeal to you to help us through this crisis. Dues from each member, plus sponsorships, will enable us to go on and be of greater service this coming year. Will you do your part?

Lewis P. Bolander, '27, is improving from his serious illness and expects to be up within a short time.

Word has been received that G. Edwin Norwood, '32, who was seriously injured in an automobile accident recently at Nampa, Idaho, is recuperating at the Portland Sanitarium, Portland, Oregon. Dr. and Mrs. Norwood plan to visit Los Angeles about the middle of May.

Mae Hall-Habenicht, A.M.M.C., 1899, has been connected with the Board of Control of State Institutions of Iowa since July, 1928, as Superintendent of the Bureau of Child Welfare. Her work involves the welfare and health of the socially handicapped children of the state. Dr. Habenicht reports that John Morse, Class of 1899, is doing very excellent work at the Iowa Sanitarium, Nevada, Iowa, and has the esteem of the medical profession of the state.

Delbert H. Werden, '30, formerly of the L. A. General Hospital, is carrying the practice of Dr. Victor L. Mann who is ill at the Loma Linda Sanitarium.

Samuel H. Phang, '33, who will complete his internship at the White Memorial Hospital in June, tied for second place in Part II of the February National Board.

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Alumni Members are Welcome

METHYLENE BLUE IN CYANIDE & CARBON MONOXIDE POISONING

In 1885 Ehrlich published a report of his work on the stimulation of biological oxidations by methylene blue (methylthionine hydrochloride, U.S.P.). More recently Warburg (1909-1925) extended this work and included human red blood cells.

Again, Harrop and Barron (1), (2) have recently demonstrated a marked increase in the consumption of oxygen in non-nucleated mammalian erythrocytes by methylene blue and related dyes in concentrations varying from .005% to .0005%, .005% being the optimum. In some of their experiments this increase amounted to 25 or 30 times the normal oxygen consumption.

Barron (3) later reported studies on the oxygen consumption of sea urchin and star fish eggs. With a concentration of .005% of methylene blue he was able to increase the oxygen consumption of sea urchin eggs 80 to 100%, and that of star fish eggs 200 to 250%. He came to the tentative conclusion that this stimulation of oxidation by methylene blue probably occurs in all living cells.

In cyanide poisoning the symptoms are those of asphyxia, yet the blood retains its bright red color and it is apparent that oxygen is present in sufficient quantity. The tissues are unable to use the oxygen present. Sol'mann suggests the term "internal asphyxia" to describe the condition. Harrop and Barron found that potassium cyanide did not interfere with the ability of methylene blue to increase the oxygen consumption of red blood cells and sea urchin and star fish eggs.

Eddy (4) found the fatal dose of potassium cyanide for the dog to be 3 cc. of M/50 solution per kilogram of body weight. This dose produced very little effect if methylene blue 0.01 Gm. per kilogram were given ten minutes before and two minutes after the administration of the cyanide. Brooks (5) found methylene blue an effective antidote to both hydrocyanic acid gas and carbon monoxide poisoning in rats. The data so far presented suggests the clinical possibilities of the use of this dye in the treatment of human poisoning by cyanide and carbon monoxide.

Geiger (6), of San Francisco, recently reported a case of potassium cyanide poisoning treated with methylene blue intravenously. He described the symptoms as follows: "On admis-

sion he was comatose; he showed spasms of the voluntary muscles, with moderate opisthotonos and extreme hypertension of the hands and feet; the pupils were contracted and sluggish in their reaction to light; respiration was slow and regular. There was a bright vermilion hue to the lips and a peculiar odor (simulating paraldehyde or chloral) to the breath.—The gastric washings had the odor of cyanide."

The young man was given 50 cc. of a 1% solution of methylene blue intravenously. Within a very short time the patient began to move and in five minutes was apparently normal except for a chill and some flushing. According to his own statement and according to the analysis of the lavage fluid, he took about one gram of potassium cyanide. Recovery was complete in fifteen minutes and within half an hour, the patient, a former medical student, wrote the following statement: "Took about fifteen grains of potassium cyanide in about four ounces of water. There wasn't any sensation other than a numbness starting at the extremities and gradually without pain spreading. The sensation was really quite pleasant; no pain and no muscular rigidity in going under, but after the intravenous injection of 50 cc. of methylene blue, 1% aqueous solution, there was just a sensation of floating."

Conclusion:

Methylene blue has been demonstrated to increase oxidation in living cells. It has been shown to act as an antidote to cyanide in rats and dogs, and to carbon monoxide in rats. In the case reported by Geiger it was a life saving measure. The present accepted dosage in the adult human being is 50 cc. of a 1% aqueous solution, given intravenously. Since the average mortality from hydrocyanic acid and the cyanides is 95%, it seems that methylene blue should always be tried.

Bibliography:

1. Harrop and Barron: Jour. Exper. Med. 48: 207, 1928.
2. Barron and Harrop: Jour. Biol. Chem. 79: 65, 1928.
3. Barron: Jour. Biol. Chem. 81:445, 1929.
4. Eddy: Jour. Pharm. and Exper. Therap. 41:449, 1931.
5. Brooks: Proc. Soc. Exper. Biol. and Med. 29:1229, 1931-32.
6. Geiger: Jour. Amer. Med. Ass'n 99:1944, Dec. 3, 1932.

Fred B. Moor, M.D.

R. Manning Clarke, M.D., F.A.C.P.

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Did You Know That

Myron S. King, '25, left Los Angeles early in April for Oxford, Indiana, where he will engage in private practice. Oxford is twenty miles from Williamsport where Thomas Eugene Ward, '30, is located.

Jean A. Vernier, A.M.M.C., 1900, writes from Algonac, Michigan, that she enjoys the Journal.

Samuel G. Kahlstrom, '29, has been transferred from the U. S. V. A. Diagnostic Center at Cincinnati, Ohio, to the National Military Home at New York.

Every graduate of the American Medical Missionary College is an Associate member of the Alumni Association of C.M.E. and has the privilege of voting and holding office just the same as the Active members who are graduates of the College of Medical Evangelists.

Arthur G. Elvin, '25, who has been practicing with his brother, Richard J. Elvin, '18, at Vancouver, B.C. spent a few days in Los Angeles during the second week in April.

Wesley Tyler Starr, the second son of Dr. and Mrs. Paul V. Starr, '31, was born at the White Memorial Hospital on March 14.

Leroy J. Otis, A.M.M.C., '99, whom we have listed in the Directory as being at Valdez, Alaska, is located at 636 Broadway, Norwalk, Calif.

Orley H. Van Eman, '24, of El Centro, Calif., visited at the White Memorial Hospital on East Sunday.

Chester H. MacKay, '30, who recently opened offices in the Braek Shops, L. A., is specializing in urology.

A baby daughter was born to Drs. Leonard and Yolanda Brunie, '27 and '28, at the Santa Barbara Cottage Hospital, on April 13.

Minnie Ethelyn Staines, A.M.M.C., '06, writes from 325 Burns Bldg., Colorado Springs, Colorado: "I have very much enjoyed the copies of the Journal and appreciate your sending them to me; also the Directory I received in January. I have been much interested in hearing from old A.M.M.C. graduates of whom I had heard nothing for twenty years or more. I am inclosing a check as a contribution toward the expense

of publishing and mailing and hope you will keep me on the mailing list.

Interns interested in taking advantage of L. C. Kellogg's special course in Dissection and Applied Anatomy, which will be offered for their benefit the second and third weeks of July, should get in touch with Dr. Kellogg immediately, at the White.

Mayme Jefferies MacLafferty, A.M.M.C., '05, has offices at 1005 Shafer Bldg., Seattle, Washington. She writes that she is very happy to hear from members of A.M.M.C., and enjoys the Journal.

A 7½ pound baby boy was born to Dr. and Mrs. Howard A. Huenergardt, '31, at the White Memorial Hospital on April 9.

A "Reminiscences" column may be started in the June Journal. Each Alumni member, which includes A.M.M.C. and C. M. E. graduates, is urged to send in an article on what he has been doing since graduation.

When patronizing our advertisers, let them know you saw their ad in the Journal.

Dr. and Mrs. Gustav Eberhardt, '32, whom the Placement Bureau assisted in getting located at Gonzales, California, report they are getting along very well. An insurance company has just offered Dr. Eberhardt the contract for their work.

If you know of openings for our doctors, please get in touch with the Placement Bureau.

Cyril B. Courville, '25, has recently been appointed Professor of Neurology at the White Memorial Division of the College of Medical Evangelists.

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