



THE  
BLUE AND GOLD  
TRIANGLE

*of*

Lambda Kappa Sigma

NOVEMBER, 1943

# NATIONAL YEARLY PROGRAM



- OCTOBER 1      Deadline for *Triangle* material for  
Fall Issue.
- OCTOBER 14     Founders' Day. Send Greetings to  
Miss Ethel J. Heath, 58 Dwight  
Street, Brookline, Mass.
- NOVEMBER 15    Fall Issue of *The Blue and Gold  
Triangle*.
- FEBRUARY 1     Deadline for *Triangle* material for  
Spring Issue.
- MARCH 1        Send list of *Triangle* subscribers, to  
Miss Marion Hemstreet, 4203 Chester  
Avenue, Philadelphia 4, Pa.
- MARCH 10      Send dues to Grand Secretary.
- MARCH 15      Spring Issue of *The Blue and Gold  
Triangle*.
- MARCH 15      Hygeia Day, Professional Program.
- JUNE 1         Deadline for *Triangle* material for  
Summer Issue.
- JULY 15        Summer Issue of *The Blue and Gold  
Triangle*.

The  
Blue and Gold Triangle  
of  
Lambda Kappa Sigma

NOVEMBER, 1943

*Managing Editor*  
VIRGINIA LEBO OSOL

*Guest Editor*  
MARION HEMSTREET



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MARJORIE  
MANRING  
BUSZEK

#### OUR NEW SECOND VICE-PRESIDENT

**M**ARJORIE BUSZEK was graduated from Wayne University College of Pharmacy, in Detroit, in 1938. She was Omicron Chapter's secretary for two years, and president in her senior year. During the Detroit Convention of Lambda Kappa Sigma in June, 1940, she served as assistant to Julia Zukowski Pishalski, convention chairman. She helped organize Omicron Graduate Chapter and was its acting secretary during the organization period and corresponding secretary since its recognition.

Prior to her marriage she was employed in the Analytical Control Department of Frederick Stearns Company and, later, in the formula department of Gelatin Products Company. She is Assistant Secretary of the Michigan Branch of the American Pharmaceutical Association and also of the Michigan Academy of Pharmacy.

*The*

# BLUE AND GOLD TRIANGLE

November 1943

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## EDITORIAL

**W**ITH this issue we resume publication of the BLUE AND GOLD TRIANGLE. It is with regret that we announce the resignation of Barbara Hynes Collins as Grand Editor. Mrs. Collins worked faithfully and devotedly for Lambda Kappa Sigma. We sincerely hope that the many unfortunate circumstances which forced her to relinquish her editorship will presently culminate happily.

For the duration we shall publish three issues a year instead of the usual four. The editors hope that these issues may be of outstanding interest to all our members. We cannot produce a good publication without your help. If you continue the fine support you have given us for this issue, we pledge to do our very best to publish a magazine of which we can all be proud.

We would especially appreciate having your comments and criticisms concerning this issue. If you have any suggestions for improving the magazine, please pass them on to us.

## OMICRON

*presents*

NELLYE DAVIS MANDRUP PAULSON

*Omicron Chapter is proud to present their honorary member, Mrs. Nellie Davis Mandrup Paulson.*



NELLIE DAVIS MANDRUP PAULSON was born July 28, 1900 in King Swenford, Worcestershire, England. Her parents, William Henry and Mary (Southall) Worton, died when she was three years old. She was taken care of by a great aunt until at the age of eight she entered St. Anne's School at Abbots Bromley. At fifteen she matriculated as a pharmacy student at the Queen's Hospital in Birmingham and was associated with the hospital for the duration of World War I. She studied pharmacy, because being a pharmacist was a tradition in her family; her mother had been a pharmacist before her marriage to Dr. William Worton. Mrs. Paulson is the youngest of four children; her two older sisters are nursing the wounded soldiers now in England and her brother is in the R.A.F. As a student apprentice of pharmacy, she turned to writing "because it seemed the only thing I could do at the time to earn money." Apprentices in England work without pay during three years following graduation. They are proud and glad just to be given the opportunity to work and receive practical training in their chosen profession. During the summer of 1918 Nellie was assigned to work in the dispensary of the military hospital at Deauville, on the west coast of France. She contracted the "flu" and after three months was returned to England just before the Armistice was signed. Taking a position as governess for a year's rest after the war, she toured Europe, particularly Switzerland and France, with Marion Gudland, the daughter of one of England's greatest ophthalmic surgeons at the time, in her charge.

In October 1921, she was married in Wolverhampton, England, where her only daughter Ruth was born. They came to America when Ruth was seven months old. That was 21 years ago and her daughter has followed the family tradition by studying pharmacy. Ruth was recently married to Ensign E. L. Williams and has transferred from Wayne University College of Pharmacy to Massachusetts College of Pharmacy where she is finishing her last year. The family came directly to Royal Oak, Michigan and Mrs. Davis began working for Arthur Jackson and during that time attended the Detroit Institute of Technology and later took her state board examination to become registered in the State of Michigan.

She continued working for him and bought his store two years later. She sold out after operating it for three years and opened a store in her present location March 1, 1929. She now owns two stores, having opened another one on March 1, 1938.

She is an active member of the Soroptimist Club of Royal Oak, Michigan, the National Association of Pen Women, the Detroit Retail Drug-gists Association, and the Christ Church of Cranbrook where she sings with the Choir. She became Mrs. Paul Mandrup-Paulson on March 17, 1937. Writer, singer, pharmacist and personal counsellor, Royal Oak, Michigan's number one career woman, Mrs. Paul Paulson, better known as Nellie Davis, has more diversified interests and good deeds marked in her ledger than many women twice her age. Writing has been her chief contribution to society at large. At least one developing novel or short story usually can be found in the back of the store in which she works, for a great deal of her writing is done between waiting on customers. She found, quite early in life, that writing was merely talking with herpen. She discovered it was a tool, the same as talking, by which she could transfer the ideas in her mind to those of others. Understanding and sympathetic, her stories are written around the world she works in and knows so well. The Queen's Hospital, Birmingham, England, where she worked in the prescription department; Birmingham College of Pharmacy, from which she was graduated; also the clinic in London's east side, where she worked continually among people—all these provide material for her stories. Her novel, *House of Sanctuary*, was published four years ago and was well received. Her second novel, *Hilltops Have Sunshine*, was just recently released by the publishers. Story magazine and other popular magazines have printed her short stories. She came close to the \$10,000 Dodd-Mead Prize, as her story was included in the last seven novels considered. It was rejected because it conflicted with existing pharmacy laws. She is now rewriting it.

Her hobby, like everything else about her, has its practical side. She and her husband are raising boysenberries on their 80-acre tract located in northern Michigan. Asked why boysenberries, she said, "It's new and different and our land is ideal for them." They are clearing a few acres each year in this heavily-wooded section to get ready for more boysenberries. They have five acres completely cleared and their first crop will be ready next year. "It takes three years," she explained, "before you receive your initial crop." She learned that these periods of waiting are only a part of living, and success can only be realized if you have the vision to see ahead and then go back and build step by step until the completed picture is realized.

## Something Old—Something New

By VIRGINIA LEBO OSOL

Because of sulfa drugs and the development of serum for the 33 different types of pneumonia, the death rate for this disease has been slashed from 50 per cent to 5 per cent. Dr. Edmund F. Foley of the University of Illinois College of Medicine considers this the outstanding medical achievement of the last decade.

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At the start of the First World War the United States used only about 60,000 tons of rubber a year, now we use that much each week. If they take away our "two-way stretch" for defense—could we say that we were "Bulging for Britain"?

▲ ▲ ▲

Did you know that more than 70,000 trained research specialists are employed by 2300 companies in the United States? And that we need three to four times that number during the national emergency?

▲ ▲ ▲

Women are much less liable to bomb shock than men. Would this be due to the "softening up" of our males by barrages of skilletts and saucepans?

▲ ▲ ▲

The night pilot who has been flying in the dark for an hour or more can see the light of a candle or the flare of a match twelve miles away, it has been estimated, even if it were exposed for only a thousandth of a second (*Science News Letter*).

▲ ▲ ▲

To ship tannic acid jelly for burns to our Armed Forces abroad, a new container has been devised. This consists of a metalized paper bag made by pressing together thin layers of paper, asphalt, metal and rubber. The bag is sealed by pressing together the ends and heating. A cardboard container for the bag provides the necessary strength and support. The use of this container and bag greatly reduces the unit weight of the package and conserves valuable shipping space.

▲ ▲ ▲

In the year 1490, Pope Innocent VIII lay dying from that "terrible disease, extreme old age," and as a last resort, a transfusion from three donors was attempted, resulting in the death of the donors but not saving the Pope. (*Clinical Excerpts*.)



CAROL  
HOUCK  
BOLLENBACK

**C**AROL HOUCK BOLLENBACK was graduated from the Philadelphia College of Pharmacy and Science in May, 1942. Following graduation she became associated with the Squibb Institute for Medical Research and while there worked on the wonder drug penicillin.

In August, 1943, she was married to Mr. George Norris Bollenback, Jr., a fellow chemist at the Squibb laboratory. Carol and her husband now reside in Ames, Iowa. Both are connected with Iowa State College; she is again working on penicillin (with Dr. C. H. Werkman) and her husband is studying for the Ph.D degree.

# PENICILLIN

By CAROL HOUCK BOLLENBACK

THE first observations regarding the presence of an antibacterial substance associated with a mold of the genus *Penicillium* were made in 1929 by a British worker, Alexander Fleming. As it not infrequently happens in bacteriology laboratories, so it occurred that some of Fleming's specimen plates became contaminated with a green mold. Other than being somewhat provoking this was nothing about which to be particularly disturbed and would have been of no moment had not Fleming observed that in spite of the rather heavy seeding of the plates with bacteria, they were free from bacterial growth in the vicinity of the mold colonies.

Fleming then investigated several other species of mold for antibacterial activity, but only the one strain of *Penicillium* which was first isolated seemed to possess this characteristic. This species of *Penicillium* was later identified as *Penicillium notatum*.

Fleming produced what is now known as penicillin by growing the mold on nutrient broth but made only a slight attempt to promote penicillin for human therapy. He used penicillin for selective isolation of various gram-negative organisms in the presence of gram-positive organisms. This same investigator also found it possible to isolate *H. influenzae* from cultures when it was not possible to detect it in smears or on the plates.

Very little was heard about penicillin again until 1940 when publications concerning it began to appear. Although papers on the subject have appeared steadily from 1940 to the present, at no time has there been profuse publishing.

The penicillin which is being produced today is, as a finished product, a light, fluffy, yellow powder. It is hygroscopic and rapidly loses its activity if exposed to air, but the activity is retained for quite some time if all moisture is removed and the material is sealed in evacuated ampules. This is the method of preservation used for all commercial preparations of penicillin. For laboratory use solutions of penicillin salts may be preserved for about a week at a temperature of 5° C. and a pH of about 7.0.

Penicillin is readily soluble in water, ether, alcohol, acetone, ethyl acetate, cyclohexanone, and dioxane.

The production of penicillin is quite a problem since so much medium is required to yield a very small amount of this antibiotic substance. Though there are several methods of production today, the general one is to maintain a large number of flat Roux or Blake bottles—or even milk bottles—which may contain from 100–300 ml. of medium upon which the mold is grown. By observing the reaction of the medium and

taking samples for assay, the time for harvesting the crude penicillin is determined and extractions of the cultural filtrates are made.

It is said that the bacteriostatic power of penicillin against streptococci and staphylococci is as great or greater than that of the most powerful antiseptics known. Yet penicillin is no antiseptic; it exerts no direct immediate bactericidal action.

Penicillin has been successfully used in cases of osteomyelitis, pyemia, and other generalized staphylococcal infections, and sulfonamide-resistant streptococcal infections. The evidence is that, with adequate penicillin treatment, it is possible to eliminate all infections associated with osteomyelitis. With proper treatment osteomyelitis may discontinue being a surgical condition.

Local penicillin treatment has also been used in infections of the eye and mastoid, in chronic wound sinuses, and in miscellaneous septic conditions. In local application it is essential that the entire infected area be reached. A high concentration of penicillin must be maintained throughout this area, consequently free drainage of the wound is undesirable. In many eye infections penicillin is used as an ointment made by dissolving the powder in vaseline.

Penicillin has also been found to be effective against *Neisseria gonorrhoea* and *Clostridium welchii* infections.

Penicillin may be administered by almost any route—intramuscular, intravenous, intrapleural, and intrathecal, or combinations of these. Occasionally injections are made locally into a sinus or abscess. Generally oral treatment proves unsatisfactory.

In sulfonamide therapy, the occurrence of sulfonamide-resisting strains of organisms is not infrequent. Often, as in chronic cases of infection where continued therapy is required, the organisms become more resistant to the sulfonamides as the treatment continues. The result is that the treatment is ineffectual. Fortunately the greater percentages of such sulfa-resistant strains are susceptible to the action of penicillin.

It has been found that some organisms also develop a penicillin resistance, but unlike the sulfa drugs these organisms demonstrate a marked decrease in virulence. It is believed that this virulence cannot be revived.

Penicillin misses fulfilling the requirements of a perfect antiseptic largely because of the rapidity with which it is excreted from the body. Due to this characteristic it is necessary to employ excessive amounts of the drug in order to obtain a favorable prognosis.

In studies on absorption, excretion, and distribution of penicillin, high initial blood concentrations following intravenous administration are succeeded by an abrupt fall, with only traces of penicillin after three and one-half hours. The sharp fall is associated with increased urinary

(Continued on page 22)

# MEET THE MEMBERS



## ELINOR D. BIRD

Initiated in her sophomore year, Elinor Bird was appointed in her junior year as chairman of the Social Committee. Last winter she was elected president for her senior year. Her name is included in the Dean's List every year, and she has been a student assistant in the Sheppard Library of the College for two sessions. In her freshman and senior years she was secretary of her class. She was graduated on October 27, 1943. Miss Bird is a member of Rho Chi, the honor society, and has been secretary of Psi Chapter during this session. In Mu Chi Phi, the open society for all women students, she was sophomore representative on the Executive Board in 1941-42, and vice-president in 1942-43.

## GERTRUDE A. DENURE

Gertrude A. DeNure, better known as "Trudy" to all the students of Albany College of Pharmacy, is Beta Chapter's president. She hails from Broadalbin, N. Y., where she was graduated from the local high school in 1941—with the distinction of being valedictorian of her class. In the fall of the same year she entered Albany College of Pharmacy. During her sophomore year she served as recording secretary of Beta Chapter.



# MEET THE MEMBERS



### ALICE MACK

Alice Mack, president of Eta Chapter, will be graduated from Philadelphia College of Pharmacy and Science this November. One of the most popular and enthusiastic leaders our Chapter has ever had, Alice will always be remembered by her sorority sisters and other classmates. Her inexhaustible supply of ideas has led us through a most enjoyable and profitable year. As much as we shall miss her, we know that she will be accepted heartily wherever she may go, and that she will always be a success and a credit to Lambda Kappa Sigma.



### RUTH STIVER

Delta's new president is Ruth Stiver — blond-haired, blue-eyed, and 5 feet, 5 inches tall. Now in her senior year, she was formerly secretary of Delta. After school hours she is serving her apprenticeship at the Beegle Pharmacy in Pittsburgh.



## An American Contribution

## BENTONITE

By LUCY E. DUFFY

FOR students, the instructions always read: "Dispense only pharmaceutically elegant preparations." As pharmacists, that very phrase became the goal for every prescription. Yet, what about the Calamine Lotion which was prescribed for ivy poison cases so often during the past summer, and what about that Coal Tar Ointment which you prepared for Mrs. White only last week? Were they pharmaceutically elegant? Could you have improved them in any way? There is no time like the present for starting to improve, since the official recognition of Bentonite in the U.S.P. XII is focusing the attention of those interested in the practice of pharmacy on the merits of this new member of the official family.

Bentonite is a clay-like substance derived from volcanic ash. For those who prefer more technical statements, it is a non-refractory clay, also known as a mineral soap or soap clay, and consists chiefly of hydrous silicates of aluminum, magnesium, and iron. In the United States it occurs naturally in two forms: the northern or true Bentonite from Wyoming and South Dakota, which is preferable for pharmaceutical use; and the southern or meta-bentonite from California and Texas. This crude product, after being mined, dried, and pulverized to the desired degree of fineness, with gritty particles removed, is suitable for any usage.

The new monograph in the U.S.P. XII states that "It is insoluble in water, but swells to about eight times its weight when added to water, and produces an opalescent suspension or paste. It is insoluble in organic solvents and does not swell in these."<sup>3</sup> In considering its physical properties, the colloidal nature of the particles and the ability to swell in water are most important. Two useful physical comparisons to be remembered when the use of Bentonite is being considered are: (1) that a six per cent suspension in water has the consistency of glycerin, and (2) that when the concentration is increased to twenty per cent the consistency approaches that of anhydrous lanolin.<sup>1</sup>

After working with the material, pharmaceutical investigators realized that twenty-four hours were necessary for proper hydration. Most research workers advise the preparation of stock suspensions containing six or seven per cent of Bentonite. A magma containing five per cent Bentonite is now official in the N.F. VII. The method of dispersing the material, whether it is intended for use in lotions or for stock suspensions is essentially the same. The method which was first developed

directed that the material be sprinkled on the surface of water intermittently. Between additions, usually over a period represented by twenty-four hours, the Bentonite sinks to the bottom of the container and swells. Obviously this method was time-consuming. In an attempt to facilitate the preparation of the suspension, investigators borrowed a time-honored kitchen appliance, the rotary egg beater and the electric rotary mixer. The use of either of these appliances not only reduces the time required for preparing the magma, but also provides a smooth and uniform mixture.<sup>4</sup>

Therapeutically this substance has been found safe for use internally or externally. Aside from the desirability of this substance in improving the appearance of pharmaceutical preparations, dermatologists use it because of its detergent properties and its ability to absorb moisture, salts, and poisonous substances from body surfaces.<sup>1</sup>

The film which the Bentonite base forms on the skin keeps any medication in situ; therefore, it may be applied to body parts where clothing would ordinarily rub off an ointment base. Another decided advantage is the fact that the film does not spread to the hair shafts when rubbed into the scalp.<sup>5</sup> The use of a Bentonite ointment base, therefore, makes the treatment of skin conditions cleaner and lessens the ordeal for the patient. In these ointment-like preparations the commonly used therapeutic agents, such as salicylic acid, ichthammol, ammoniated mercury, resorcinol, sulfur, coal tar, peruvian balsam, gentian violet, and juniper tar have been found to be compatible with the Bentonite base.<sup>5</sup> The non-greasy character of the base enables the patient to remove it from the skin by gently rubbing the area under running water. This characteristic is of decided importance when substances such as coal tar or ichthammol are included in an ointment. The one disadvantage in its use, however, is the possibility of its forming a brittle crust upon drying. The use of five to ten per cent lanolin, or of ten per cent glycerin, in all probability will prevent the formation of the brittle crust. The following prescription, when compounded with Bentonite, illustrates the properties found in a preparation of this type:

Coal Tar.....	5.0 Gm.
Bentonite.....	20.0 Gm.
Lanolin.....	10.0 Gm.
Water, q.s. ad.....	100.0 Gm.

The prescription above is compounded by adding the water slowly to the dry Bentonite on an ointment slab. This smooth product may be incorporated with the coal tar and lanolin mixture.

Bentonite may be satisfactorily used as a suspending agent for insoluble alkaline substances. Acid lotions, such as the Yellow and Black Washes, are incompatible with Bentonite, since their pH usually runs at about 6.0 and Bentonite requires a pH of at least 8.0. The true organic acids have also been found to be incompatible.<sup>2</sup>

The use of Bentonite is not necessarily restricted to official preparations. It may be used by the pharmacist in many troublesome prescriptions. Hubbard and Freeman<sup>6</sup> prepared a list of such prescriptions in which Bentonite could be advantageously used. Two of these, selected from their article, will illustrate the use of Bentonite in extemporaneous prescriptions.

"Camphor.....	0.6 Gm.
Menthol.....	0.6 Gm.
Phenol.....	1.2 Gm.
Calamine.....	7.2 Gm.
Zinc Oxide.....	7.2 Gm.
Boric Acid.....	3.6 Gm.
Olive Oil.....	48.0 cc.
Bentonite (6%) in Lime Water q.s. ad.	120.0 cc.

Place the Bentonite in suspension under an electric mixer, to which add a uniform mixture of the camphor, the menthol, the phenol, the calamine, the zinc oxide, and the boric acid; and finally add the olive oil. If a water-in-oil emulsion is desired, start with the olive oil to which the uniform mixture of powders is added under a rotating electric mixer and finally add the Bentonite suspension.

Precipitated Sulfur.....	3.0 Gm.
Spirit of Camphor.....	5.0 Gm.
Stronger Rose Water.....	15.0 Gm.
Bentonite (6%) in Lime Water q.s. ad.	60.0 cc.

Place the Bentonite suspension under a rotating electric mixer, then add the precipitated sulfur, the spirit of camphor, and finally the stronger rose water."

The uses of Bentonite are not limited to pharmacy. It has been used with barium sulfate in making roentgenological studies of the stomach and intestine. Furthermore, it has been suggested as a lipstick base. The literature reveals that many research workers have investigated its properties, uses, and advantages. On the basis of their experiments it has been admitted to the U.S.P. XII. With a comprehensive knowledge of the properties of Bentonite, the professional pharmacist may use either the powder or the magma in the preparation of many extemporaneous prescriptions and offer, thereby, more elegant preparations to dermatologists.

#### REFERENCES

- <sup>1</sup> Lesser, M. A., *Dr. and Cosm. Ind.*, 49 (1941), 390.
- <sup>2</sup> Fantis and Dyniewicz, *Jour. A. Ph. A.*, 27 (1938) 878.
- <sup>3</sup> *United States Pharmacopoeia XII.*
- <sup>4</sup> *Jour. A. Ph. A., Pr. Ph. Ed.*, 2 (1941) 84.
- <sup>5</sup> *Jour. A. Ph. A., Pr. Ph. Ed.*, 2 (1941) 453.
- <sup>6</sup> Hubbard and Freeman, *Jour. A. Ph. A., Fr. Ph. Ed.* 2 (1941) 78.

# CHAPTER REPORTS

Due to the accelerated program under which the Massachusetts College of Pharmacy has been operating for two years, this report covers the activities of Alpha Chapter from March 1943 through the summer to September 1943. During this time seven new members have been initiated. They are Jacqueline Desprez, Eileen Donahue, Jean Lynch, Constance Moore, Phyllis Sheldon and Ruth Sheldon of the sophomore class, and Lillian Pyburn of the junior class. The membership roll shows a total of seventeen active members.

Hygeia Day was celebrated at the college in a professional manner with Miss Mary Maher of the Massachusetts Board of Registration of Nurses as guest speaker.

The initiation of the new members took place in June. After the ceremony, the newly initiated members were guests of the chapter at a dinner at a quaint little colonial restaurant. This was followed by a most enjoyable evening at the Pop Concert in Symphony Hall.

Alpha's annual dinner dance was held on the Hotel Sheraton Roof, which overlooks the Charles River, and was enjoyed by thirty members and guests.

Alpha Chapter was pleased to have Mrs. Ruth Davis Williams of Omicron Chapter as a guest at the college recently.

On September 21st the members of Alpha Chapter were the guests of Professor Maynard Quimby at a wiener roast at his home in Wellesley Hills.

ELINOR D. BIRD.



## GAMMA CHAPTER

Our college is following the accelerated program and therefore the present college year began June 28th. For each month this year we planned a monthly business meeting plus one evening of special entertainment (with other meetings and functions as necessary).

A luncheon was held at the Illini Union for the rushees. Then a beach party was planned, which due to rain was changed into an informal evening at Mary Janet Grant's home. The Graduate Chapter joined us in the Chicago Illini Union for the next function, which consisted of the pledging ceremony. Since then, weekly meetings have been instituted for pledges to perform assignments.

Because of the war, Kappa Psi Chapter is dormant, and so our annual mixer could not be held. Nor did we enjoy a Pharmacy Interfraternity Dance as we did the preceding year.

The best function of the last year was a card party with the Graduate group.

The immediate plans are for "Hell" week, informal initiation and formal initiation. October also offers the dinner of the Professional Panhellenic Association, and a sorority dinner for visiting sisters. In November a joint meeting of the Active and Graduate Councils is planned in order to attend a theater party. A Christmas party and new rushing activities are scheduled for the distant future.

DINA LOLLI.

## DELTA CHAPTER

School days, Oh, school days! Dear old golden rule days! Ah, yes!—but then there is always fun and frolic at the Delta Chapter of Lambda Kappa Sigma. Just to show that we are not old stick-in-the-muds and have  $\Delta\text{K}\Sigma$  at heart, we invited, dined and whined with the girls from Duquesne College of Pharmacy. Corsages were furnished them and pins made in the shape of the traditional mortar and pestle with the letters  $\Delta\text{K}\Sigma$  pasted on them, were worn by us all. The affair was a jovial success.

A very lovely dance, billed by its traditional name, Pharmacy Mix, was held soon after at the Balconades. The evening was opened by most of us bowling a few lines of duck pins. Oh! how warm and passionately yellow the moon was (or was it green?). The dance was held under the chapronage of Dr. and Mrs. Van Meter.

An N. F. was raffled to help raise funds for Old Mother Hubbard's treasury of dear old  $\Delta\text{K}\Sigma$ . The returns were like a shot of plasma to a staggering anemic. The net profit was \$12.15.

It was suggested that we have a boat excursion and an "affair" with the fraternity Kappa Psi. Oh! no, girls, not that kind of an affair—just clean fun and sisterly love.

A dinner for freshman girls and professors' wives was munched in the Cathedral of Learning, and an Alumnae banquet—correction—only a light luncheon, titled banquet, was held at the College Club. The subjects of discussion were "Modern Retail Pharmacy" and "Hospital Pharmacy."

Once more our funds were so large that we were forced to use the ultra modern, ultra ray microscope to locate them. Plans were immediately discussed to raffle a copy of the U.S.P. XII. To deal with the problem of where to keep all this money, we purchased a strong box and a filing cabinet.

Shortly thereafter, we decided to do homage to one of Aesculapius' kids—Hygeia—so we romped, no—that's not what a good Greek would do; he would sit and drink, so we drank—but it wasn't Four Roses—it was Miss Sonja Kason's words. And they weren't bitter either.

We decided it was just the season for a picnic. So we held one at Schenly Park. The paths and ways were charming and even at times enchanting. It could have been more so, but there is a war—and—there is an Army.

We are now formulating plans for our fall and winter socials. We are also considering the possibility and plausability of the formation of a Graduate Chapter.

CLARA P. KUENZIG.



## ETA CHAPTER

Since the Philadelphia College of Pharmacy and Science is on an accelerated program, Eta Chapter has functioned all summer. The president took office on February 15, 1943 and her first task was to present the past-president, Marguerite Keller with a past-President's pin for her work while in office. At this time, the sorority awarded the "Honor Key" to Dorothy Newmeyer who graduated in February with highest honors.

One of the first events of the college year was "Hell" week and then Jinx night which was followed by formal initiation of ten pledges. Shortly after this, Alice Mack held a party at her home for the sorority members.

The sorority helped to conduct a U. S. O. Dance at the college and also did some Red Cross work. Later in the semester, the girls received blue and white sport jackets with the initials  $\Lambda K \Sigma$  on the upper left hand pocket. These are worn on the campus.

Some of the other events of the semester were as follows: a roller skating party at the Adelpia Rink, a hike in Fairmount Park, and then a horseback riding party. This latter was rather humorous as some of the girls had never ridden a horse before. For another good time, the girls went bowling.

Our summer vacation consisted of two short weeks and the sorority as a group spent one week at Wildwood. We returned to college in July for another semester of hard work and some more fun for the sorority members.

Freshmen enrolled in school in July and things started to happen right off the "bat." A reception was held in honor of the freshmen girls with Dr. Madeline Holland as a guest. Then came a "weenie" roast in Upper Darby. Shortly afterwards Mrs. Zwart (Helen Doty), an associate member, honored the sorority with a buffet supper at her home in Narberth. At this time, we held a kitchen shower for Carmaline de Masi who had announced her engagement. The formal dinner dance was held at the Adelpia Hotel and the favors were leather wallets. In the latter part of September, Mrs. Virginia Osol was a guest at the pledging ceremony for eight new members.

Many plans are being made for the remainder of the college year.

Alice M. Mack.



### LAMBDA CHAPTER

With nearly the entire student body of the Pharmacy College here at the University of Southern California in uniform and studying under an intensive program, many duties have fallen into the hands of the women. Members of the Lambda Chapter of Lambda Kappa Sigma are taking part in many of these new duties.

The sorority is active in editing the Pharmacy College paper formerly a responsibility of Skull and Mortar, the men's honorary organization. The publication appears monthly, and is being sent to former students now in the service as well as to neighboring Colleges of Pharmacy.

September 15th marked the day of Lambda Kappa Sigma's All-Pharmacy Luncheon. The event which was attended by a nearly complete faculty and student body was a success and indicated that such affairs still find approval under present war restrictions.

A very conservative social calendar was followed by the sorority this summer session. It included a beach party, a formal dinner dance and bi-monthly meetings at the homes of members. Tentative fall plans include taking over the university's Victory Hut for a week to sell War Bonds and Stamps, a joint meeting with the Alumni, and rushing.

At the present time this chapter has nine active members, one of whom is Peggy Meadows recently returned after a year at the University of Illinois where she was active in the local chapter. Although there are no pledges at this time there is a possibility of five of them in the fall semester.

Mary Noel Etchart.

MU CHAPTER

Mu Chapter extends best wishes to the Grand Council and all chapters for a very successful year in Lambda Kappa Sigma.

At the present time, Mu Chapter has ten active members, and hopes to increase her membership considerably in the near future. We have several new girls at the college and at present we are making plans to entertain them.

We joined the other Pharmacy organizations on the campus to sponsor the annual Pharmacy Mix which will be held in October. It is at this affair that we will award our annual cash scholarship of ten dollars to the junior student who has obtained the highest scholastic average in his college work for the first two years.

Last summer our members had diversified occupations. Some of the girls worked in drug stores, others in hospitals, and Geraldine Simpson drove a grain truck.

CATHERINE STRASSER.



XI CHAPTER

The members of our newly organized chapter were initiated in November 1942. A most enjoyable evening was had by all at the Narragansett Hotel in Providence, with several of the girls from Alpha Chapter of Lambda Kappa Sigma present.

On March 15, 1943, Hygeia Day, we initiated three more members into our chapter. After the initiation ceremony, a dinner and theater party was enjoyed by all the members.

We are planning to hold our next initiation in October, and we hope to increase our membership considerably. At the present time, there are ten members in our chapter.

CAROLINE A. DEL SANTO.



PI CHAPTER

Pi Chapter of Lambda Kappa Sigma Sorority at Rutgers College of Pharmacy was rather inactive up until a few months ago when five new members were accepted into our chapter.

The past few months have been hectic ones for all of us due to the accelerated program, but we have managed to keep our chapter going.

Counting the five new girls, we now have nine members. We weren't too hard on the girls during pledge week, but the night of their informal initiation, we really tested their sportsmanship. Formal initiation was held at Hommell House, and we invited the graduate members.

Now that our sorority has increased its membership we are planning several events for the future. We have ordered sorority pins for all the girls. At our last meeting we elected the following new officers:

- President*.....Ethel Drelich
- Vice-President*.....Frances Heaney
- Secretary*.....Beatrice Leone
- Treasurer*.....Charlotte Bolton

After the business of the meeting had been attended to, we planned how to make our sorority meetings more interesting. This week as an extra added attraction, we are

going to have a "seance" with the mysterious "Ouija Board." For each meeting hereafter we shall have some sort of diversion from the usual "bull sessions." Our next plan is to have bridge or mahjong played after the meetings.

We plan to have a bazaar next month to make money for the sorority so that we can buy some medical supplies to donate to the Red Cross. Several of our girls are hostesses at the U. S. O. and Stage Door Canteen, so you see we're all doing our best to help the war efforts.

We went to New York to see the show "Kiss and Tell," followed by dinner afterwards. We hope we can do the same thing again soon as we all had such a good time together.

Next month we are going to pledge more freshmen girls, which will substantially increase our membership.

That just about ends this report. It will be much more interesting next month when I can write and tell you how our plans have worked out. We are really looking forward to doing great things for Pi Chapter and with the wonderful group of girls we have, we can't miss.



BEATRICE LEONE.

#### SIGMA AND SIGMA GRADUATE CHAPTERS

Sigma Active and Graduate Chapters have enjoyed a busy year. Both have held joint meetings, the Graduate Chapter acting in an advisory capacity to the Active group.

Early last spring, Betty Schein, Barbara Bernstein, Shirley Jaffe, Paule See and Miriam Meyer were initiated at the Hotel McAlpin. A great many girls were present for dinner at the Marine Grill which was followed by cocktails at the New Yorker Terrace Room.

During the past year we have had several social affairs such as the party given us by the Women's Club, our party for the freshmen which was in charge of Rosemary Simone, our pledging and post-Christmas party followed by a dinner at the Southern Kitchen, and our recent installation dinner at the Claremont Inn.

We have also had several important business meetings such as the one last December when Dean Ballard produced the Servicemen's *Bulletin* and Mr. Pokorny spoke of Selective Service effects on Pharmacy, and Miss Sandberg lectured on Red Cross Canteen work. In January our guest speaker was an F.B.I. agent. In February we had the pleasure of viewing a film on the Lyovac Process shown by Sharp and Dohme.

Last April, twenty-four of our members attended the dinner meeting of the P.P.A. at the Planetarium Restaurant.

GERTRUDE E. COLLER.



#### TAU CHAPTER

On August 15, 1943, Tau Chapter held a party in the University lounge for the Alumnae and the wives of the Pharmacy Professors at Duquesne University.

On September 14, 1943, a dinner was given in honor of our graduating senior, Miss Jeanne Ivory, at which time we presented her with a gift. We are happy to say that Miss Ivory had the highest scholastic standing in her class and was graduated with honors.

We have many plans for the future, and we will tell you more about our activities in our next report for the BLUE AND GOLD.

MARY C. INTRIERI.

## PHI CHAPTER

Early in May, 1943, Phi Chapter held a party for the new girls at the Indianapolis College of Pharmacy. We decided to ask eight of them to become members of our chapter. They were initiated on Sunday, May 23, 1943, at the home of Mrs. E. H. Niles. The new members are Patti Cain, Gladys Cox, Joan Fritz, Mildred Hull, Merle Isgrigg, Eva Lorentz, Joan Rosner and Betti Teeter. These girls have added much to the spirit of our chapter. In July they gave a dinner at the college and made a nice profit.

As for our old members, most of them have been busy raising families. We have had five births recently. The proud mothers are Mrs. Hazel Stevens, Mrs. Lucille Kavanaugh, Mrs. Roselene Higgins, Mrs. Ruth Sinclair and Mrs. Jane Rusher. As for marriages, there have been two recent ones—Adele Lobraico became Mrs. Albert Lowe and Marge Smith became Mrs. Paul Stahl.

HAZEL STEVENS.



## ALPHA GRADUATE CHAPTER

In September, 1942, Alpha Graduate Chapter held a weenie roast and welcoming party for new members at the home of Mrs. Ruth Flaherty.

In October, our grand president, Mrs. Virginia Osol, visited Boston, and was the guest of the Active and Graduate Chapters at a Smorgasbord dinner. Shortly after this, the Graduate Chapter sent nine members to the Regional Meeting in New York.

In November, Mrs. Caroline Galassi entertained us at her home. In December, we held a dinner followed by a theater party at the Metropolitan Theater.

Mrs. Caroline Galassi again entertained us in March. In June we had election of officers and a "Bill Shower" for our president, Myrbel Newton Petersen at the home of Adele Lang in Waltham.

In May the entire chapter was invited to Myrbel's wedding and reception at her home. Our other recent brides have been Velia Zamarra, Adeline Lucas, and Phyllis Voom.

MYRBEL NEWTON PETERSEN.



## ETA GRADUATE CHAPTER

Eta Graduate, in conjunction with the accelerated program of the college, has continued to hold its regular monthly meetings through the summer season. Our president, "Pat" Di Lucca, is now residing with her husband—a member of the U. S. Army—and Marion Hemstreet, vice-president, has ably taken over "command."

The summer activities began by attending a pledging ceremony at the college on invitation from Eta Active Chapter. Our next affair was a dinner held at Garden Court, arranged by Florence Kleckner.

We also had a "purely scientific meeting" at which Frances Curron gave a paper on "The Triple Dye Treatment for Burns." Frances gave some very interesting information which she gathered from her own experiences working with the product and also other points found in the literature.

Polly McDowell entertained us in June at her home where we had a very fine time as well as good food—and very little business.

Twice during the summer months matrimony entered into our ranks—Dorothea McClanen became the bride of a classmate, James Hamlin, an Ensign in the U. S. Navy. And in August Carol Houck was married to G. Bollenback.

In July everyone enjoyed herself at a picnic when we traveled to Woodside Park. Then at the August meeting there was a baby shower for Bertha Yanis.

Now all that anyone can talk of is the regional meeting to be held at Boston in November. We are all looking forward to this occasion when we hope to renew old acquaintances made at Atlantic City and New York, and also to making new ones.

At this time we would also like to extend to Mrs. Osol and her staff very best wishes in the new effort being put forth in the BLUE AND GOLD. Good luck!

EMMA ALLEN.



### OMICRON GRADUATE CHAPTER

Since the organization early in 1942 of Omicron Graduate Chapter, activities have been going along very smoothly and regularly. Even during the organization period we sponsored a professional program for Hygeia Day. During these two years we have had regular monthly meetings plus several special occasions such as boat excursions, picnics, showers, a Service Men's Party and a few bowling dates. In January of 1943, we Graduates sponsored a card party, from which all profits were turned over to the U. S. O.

Hygeia Day (1943), we again sponsored a professional program which included movies entitled "Modern Anesthetics" and the "History of Gelatin Capsules."

Without a doubt the outstanding occasion for Omicron Graduate Chapter took place last April. The girls prepared new robes and memorized their parts of the Ritual for Formal Initiation. Initiation was conducted by the Graduate Chapter for the Active Chapter. At that time, the Chapters' first Honorary Member, Mrs. Nellie Davis Paulson, was initiated. Incidentally, her daughter, Ruth Davis, was initiated into the Active Chapter at the same time.

The latest project for Omicron Graduates is for each member in her turn to present a technical paper at a business meeting of the chapter.

Technical departments of local defense plants have called several of our members; and all are doing their part to keep Pharmacy moving smoothly during these trying times.

P. S.—Our Vital Statistics Department shows that since our organization we have had five births, two engagements and four marriages.

MARJORIE MANRING BUSZEK.

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### PENICILLIN (Continued from Page 10)

excretion. Average excretion after intravenous injection is 58 per cent of the injected dose. Penicillin is rapidly absorbed after intramuscular injection, slowly after subcutaneous, and excretion in urine is correspondingly rapid from the duodenum; whereas oral and rectal doses are poorly absorbed—probably due to the inactivating effect on penicillin of acid and *E. coli*.

In cases where intravenous injection is indicated, doses of from 30,000–40,000 Oxford units per 24 hours are used for treatment of moderately severe or severe infections.

Almost all penicillin now produced goes to the Armed Forces, but it is the hope of everyone that someday soon it will be made available to civilians as well.

## CHAPTER OFFICERS

- ALPHA—Massachusetts College of Pharmacy, Boston, Mass.  
*President*, Miss Elinor D. Bird, 179 Longwood Ave., Boston 15, Mass.  
*Secretary*, Miss Rose A. Tricomi, 179 Longwood Ave., Boston 15, Mass.
- BETA—Union University, College of Pharmacy, Albany, New York.  
*President*, Miss Gertrude De Nure, Albany College of Pharmacy, Albany, N. Y.  
*Secretary*, Miss Evelyn Abare, Albany College of Pharmacy, Albany, N. Y.
- GAMMA—University of Illinois, College of Pharmacy, Chicago, Ill.  
*President*, Miss Marion Dulla, 1836 S. 58th Court, Cicero, Ill.  
*Secretary*, Miss Dina Lolli, 6915 S. Campbell Ave., Chicago, Ill.
- DELTA—Pittsburgh College of Pharmacy, Pittsburgh, Penna.  
*President*, Miss Ruth Stiver, 798 Columbia Drive, Pittsburgh, Penna.  
*Secretary*, Miss Fern Heidt, 1410 Morse Ave., Erie, Pa.
- EPSILON—University of Maryland, College of Pharmacy, Baltimore, Md.  
*President*,  
*Secretary*, Miss Ruth Sippel, 4943 Belair Road, Baltimore 6, Md.
- ZETA—University of California, College of Pharmacy, San Francisco, Cal.  
*President*,  
*Secretary*,
- ETA—Philadelphia College of Pharmacy and Science, Philadelphia, Penna.  
*President*, Miss Lillian Guiliani, 617 Valley Road, Llanerch, Penna.  
*Secretary*, Miss Jane R. Dewees, 125 Penn Ave., Collingswood, N. J.
- THETA—Creighton University, College of Pharmacy, Omaha, Neb.  
*President*,  
*Secretary*,
- IOTA—University of Oklahoma, College of Pharmacy, Norman, Okla.  
*President*,  
*Secretary*,
- LAMBDA—University of Southern California, College of Pharmacy, Los Angeles, Cal.  
*President*, Miss Mary Noel Etchart, 3607 S. Hoover St., Zone 7, Los Angeles, Cal.  
*Secretary*, Miss Bernice Johnson.
- MU—State College of Washington, College of Pharmacy, Pullman, Wash.  
*President*, Miss Catherine Strasser, College Station, Pullman, Wash.  
*Secretary*, Miss Ruth Hadley, College Station, Pullman, Wash.
- NU—Drake University, College of Pharmacy, Des Moines, Iowa.  
*President*,  
*Secretary*,
- XI—Rhode Island College of Pharmacy, Providence, R. I.  
*President*, Miss Caroline Del Santo, 235 Benefit Street, Providence, R. I.  
*Secretary*, Miss Minerva Madden, 235 Benefit Street, Providence, R. I.
- OMICRON—Wayne University, College of Pharmacy, Detroit, Mich.  
*President*,  
*Secretary*,

- PI—Rutgers College of Pharmacy, Newark, N. J.  
*President*, Miss Ethel Drelich, 63 Cottage St., Jersey City, N. J.  
*Secretary*, Miss Beatrice Leone, 416 Park Avenue, Paterson, N. J.
- RHO—Oregon State, College of Pharmacy, Corvallis, Ore.  
*President*, Miss Muriel Vincent, 312 N. 25th Street, Corvallis, Ore.  
*Secretary*, Miss Sally Kutz, Delta Delta Delta House, Corvallis, Ore.
- SIGMA—Columbia University, College of Pharmacy, New York, N. Y.  
*President*, Miss Miriam Rosenberg.  
*Secretary*, Miss Barbara Bernstein.
- TAU—Duquesne College of Pharmacy, Pittsburgh, Penna.  
*President*, Miss Rose Marie Funk, 3537 Gerber Avenue.  
*Secretary*, Miss Mary Intrieri, 712 Schiller Street, Baden, Pa.
- UPSILON—University of Southern Idaho, College of Pharmacy, Pocatello, Idaho.  
*President*, Miss Lesley F. Moore, 930 North Arthur, Pocatello, Idaho.  
*Secretary*, Miss Elizabeth Cook.
- PHI—Indianapolis College of Pharmacy, Indianapolis, Ind.  
*President*, Miss Anita Battista, 2417 Central Avenue, Indianapolis, Ind.  
*Secretary*, Mrs. Hazel Abdon Stevens, 322 N. Arsenal Avenue, Indianapolis 1, Ind.
- CHI—University of Washington, College of Pharmacy, Seattle, Wash.  
*President*, Miss Ruth S. Fitch, 321 2nd Avenue, North Seattle, Wash.  
*Secretary*, Miss Phyllis Jones, Mercer Island, Wash.
- GRADUATE CHAPTERS
- ALPHA GRADUATE—Boston, Mass.  
*President*, Mrs. Eleanor Ford.  
*Secretary*, Mrs. Margaret Shea, 17 Thomas Park, South Boston, Mass.
- GAMMA GRADUATE—Chicago, Illinois.  
*President*, Miss Florence M. Hatter, 1221 S. 58th Street, Cicero, Illinois.  
*Secretary*, Miss Harriet Kuszleyko, Chicago, Illinois.
- ZETA GRADUATE—San Francisco, California.  
*President*  
*Secretary*
- ETA GRADUATE—Philadelphia, Penna.  
*President*, Miss Marion Hemstreet, 4203 Chester Avenue, Philadelphia 4, Pa.  
*Secretary*, Miss Emma Allen, 4203 Chester Avenue, Philadelphia 4, Pa.
- LAMBDA GRADUATE—Los Angeles, California.  
*President*,  
*Secretary*,
- SIGMA GRADUATE—New York, N. Y.  
*President*, Miss Rosemary Simone.  
*Secretary*, Miss Gertrude E. Coller, 840 Castleton Avenue, Staten Island.
- OMICRON GRADUATE—Detroit, Michigan.  
*President*, Mrs. Marjorie Buszek, 12023 Vaughan Avenue, Detroit 23, Mich.  
*Secretary*, Miss Virginia Bassetti, 3971 Third Avenue, Detroit 1, Mich.

## GRAND OFFICERS

*President*.....MRS. ARTHUR OSOL  
128 Colwyn Lane, Bala-Cynwyd, Pa.

*First Vice-President*.....MRS. CAROLINA GALASSI  
500 Park Drive, Boston 15, Mass.

*Second Vice-President*.....MRS. MARJORIE BUSZEK  
12023 Vaughan Ave., Detroit 23, Mich.

*Third Vice-President*.....MRS. IRMA INGLING

*Fourth Vice-President*.....MRS. JULIA PISHALSKI  
5347 Chene Street, Detroit, Mich.

*Grand Secretary*.....MRS. P. H. DIRSTINE  
501 High St., Pullman, Wash.

*Grand Treasurer*.....MRS. PAUL GEISLER  
6316 N. Minnesota Ave., Portland, Ore.

*Two-Year Member-At-Large*..MISS CORA CRAVEN  
57 Oregon Ave., Lawrence, Mass.

