





**SOCIETY**

WILLIE HUGHES SMITH, Editor Phone Ash. 3851-X

**CALENDAR**

Today, March 12:  
American Association of University Women, 3:30 p. m., Maxwell Place.  
Sigma Delta Chi, 7:30 p. m., 114 Johnson boulevard.

Wednesday, March 13:  
Dr. and Mrs. McVey at home, 4 p. m., Maxwell Place.  
Zeta Tau Alpha Mothers' club, 2:30 p. m., chapter house.  
Lexington Phi Beta club, 7:30 p. m., home of Mrs. H. C. Robinson.

Thursday, March 14:  
Alpha Gamma Delta dinner, 6 p. m., Phoenix hotel.  
Mrs. McVey entertaining Theta Sigma Phi, 7:30 p. m., Maxwell Place; Miss Ruthenberg honor sues.  
Omicon Delta Kappa, dinner meeting, 8 p. m., Tea Cup Inn.

Friday, March 15:  
Mr. and Mrs. James Franklin Darby, Vidalia, Ga. have announced the engagement of their daughter, Frances Green, to John Brooks Wood, Nicholasville. The wedding will be solemnized April 3.

leen Cole, Sarah Slack, Esther Briggs, Ann Payne Perry, Dorothy Nichols, Elsie Riley, Ann Fishback, Key Kennedy, Betty Bewlay, Virginia Brown, Mary Louise Bradley, Betty Jackson, Jessie VanMeter, Jean St. John, Betty Greys, Susan Yankey, Virginia Throgmorton, Virginia Bosworth, Alberta Hall, Florence Fisher, Dorothy Hosel, Scottie Chambers, Betty Woodson, Virginia Caywood, Dorothy Broadbent, Elizabeth Baribus, Blanche Griffin, Maurine Rose, Frances Sleed, Emma Wolf, Marie Vernon, Irene Stevens, Dorothy Brock, Eliza Henderson, Kathryn Graves, Ann Robinson, Marjorie Pieber, Bonnie Combs, Polly Craddock, Dorothy Smith, Elizabeth Frank, Marjorie Rout, and Elizabeth Jones.

Chaperones were Dr. and Mrs. F. McVey, Misses G. R. T. Jones, Dean Sarah Blanding, Dean Sarah Holmes, Mr. and Mrs. Grady Bellard, Mr. C. O. Jett, Mrs. J. M. Homer L. Baker, Mr. and Mrs. E. B. Webb, and Mrs. Elizabeth Luxon.

**Four Different Qualities Cited In Heavy Water**

The Cost of this Aqua Is A Mere Stipend of \$6,000 Per Pound

Although like ordinary tap water in appearance, "heavy water" has at least four major differences. In the first place, it costs about \$6,000 a pound; in the second, it kills small plants and animals (some of our professors might try it); it boils at 215 degrees and freezes at 39 degrees; and it differs in that the hydrogen atom in the makeup of this substance is twice as heavy as the ordinary atom in the fluid we usually drink.

In order for the scientists to keep these few atoms straight—there is one atom of this "heavy hydrogen" in 6,000 atoms of ordinary water—they have been termed "protium" from the Greek meaning first, and the new heavy atom is called "deuterium", also from the Greek, but meaning second. It is with this newly separated deuterium that the scientists are now mainly concerned when it comes to hydrogen, because it reacts in a different manner in many chemical reactions, thus giving light on how many reactions take place.

This new substance, this "heavy water", is used as a "mirror" to test atomic action in chemical reactions. For example, do the hydrogen atoms

in sugar exchange places with those of water? Do the hydrogen atoms of different substances when mixed in solution, jump about from one molecule of one substance to a molecule of the other, or do they remain at home, quietly reposing within their original structures? To find an answer to these questions the scientists want to use "heavy water", in the stead of the ordinary water, and if a change in the positions of the element in the original substance has taken place, the substance going back to our sugar and water) will weigh heavier because of the added weight of the hydrogen which came from the water.

Deuterium, as an isotope of hydrogen, has proved useful in explaining many heretofore unexplained facts. Ammonia, for instance, tends to break up, for some previously undisclosed reason, under the action of ultra-violet light. But when the ammonia was mixed with some of this heavy hydrogen, new light was thrown on the subject. It was found that this deuterium eventually displaced all the light hydrogen atoms in the ammonia, and the reaction was measured by measuring the absorption of light from some other source with the spectroscope. Three different spectra resulted in which one atom deuterium had displaced one atom of protium; in which two of the light hydrogen atoms had been displaced; and in which all three were finally displaced by the heavy hydrogen atoms.

It was found, moreover, that by

bombarding ionized deuterium atoms with gamma rays, the ordinary protium atom resulted, along with neutrons. The gamma rays we might add, have energies of 2,620,000 volts and are the same rays now used in medicine for the treatment of cancer. This atom breakup, therefore, throws new light on the composition of the heavy hydrogen atom—deuterium—and its compound, "heavy water."

**Picadome Pupils Hear Recital By Men's Glee Club**

The Men's Glee club of the University of Kentucky was presented in a recital Tuesday morning at the Picadome High school.

Prof. J. H. Sweeney introduced Prof. Carl Lampert, head of the music department at the University and director of the glee club.

Among the selections given by the Glee club were the Alma Mater by Professor Lampert; Home on the Range; Little David; Play on your Harp; O, Mary; the official Navy song, Anchors Aweigh; Anvil Chorus; St. Paul; and On, On, U. of K.

The featured number of the program included a violin solo by J. Preston Bryan and vocal solos by James Baird and John Sweeney, Miss Anne Goodkrome was the accompanist for the program.

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**Tea for Senior Women**

The American Association of University Women will entertain at tea at 3:30 p. m. today at Maxwell Place in honor of the senior women of the University and Transylvania.

Miss Grace Dorcas Ruthenberg, member of the Arts Club of Louisville, will read one of her own plays, Miss Ruthenberg, who has had many plays produced in Little Theatres throughout the United States, will be introduced by Mrs. Preston Johnson.

**Phi Kappa Tau**

Kappa of Phi Kappa Tau held formal initiation services at midnight Saturday at the chapter house for the following: Messrs. James Westbrook, Wilmington, N. C.; James Kellomaki, Astoria, Ore.; Evans and Bob Coleman, Frankfort; Kenneth Sylvester and Alfred Russell, Lexington; and the chapter entertained the initiates with a buffet supper Sunday night. The guests were Misses Mary Louise Stark, Amelia Denton, Mary Dantzer, Thelma Goodrich, Mary Neal Walden, Mrs. C. Compton, Katherine Jones, Sara Cleveland, Audrey Forster, Virginia Jennings, Janet Boogher, Babe Martin, Goldie Bell, Lucy Jean Anderson, Julie Wood, Anne Todd, Eloise Carrel, Virginia Young, and Mrs. Harold Hill.

Chaperones were Mrs. A. B. McCormick, Prof. Roy Moreland, and Dr. and Mrs. Otto Koppfus.

**Delta Chi Entertains**

Kentucky chapter of Delta Chi entertained the parents of the Lexington members at dinner Sunday at the chapter house. Following the dinner a meeting was held by the mothers for the purpose of organizing a Mothers' Club.

Those present were Mrs. Ethel Swartz, housemother; Mr. and Mrs. J. M. Carroll; Mr. and Mrs. C. B. Hicks; Mr. and Mrs. Hargis Hughes; Mrs. F. K. Farro; Mrs. Zack Smece; Mrs. J. T. Shuck; and Mrs. H. H. Land.

**Alpha Xi Delta Initiation**

Xi of Alpha Xi Delta held formal initiation services at luncheon Sunday at the chapter house for the following pledges: Misses Marie Beede, Hopkinsville; Jean Clouston, Middleboro; Mary Downs Hocker, Mottley; Natalie Linville, Paris; Wilma Taylor, Beaver Dam; Lydia Catherine Tucker, Louisville; and Betty Woodson, Falmouth.

Following the initiation, the new initiates were entertained with a breakfast in the Red room of the Lafayette hotel.

S. A. E. Dance

Kentucky Epsilon of Sigma Alpha Epsilon fraternity entertained with a formal dance from 9 to 12 o'clock Saturday evening in the Alumni gymnasium.

A terraced garden was the setting for the orchestra, with grass mats, flowers, and a white arch forming a background against purple velvet draperies. Huey Shea, Cleveland, furnished the music for the dance.

Guests of the fraternity were: Misses Margaret Craft, Elizabeth Hardwick, Rosiland Wilson, Elizabeth Gross, Phyllis Caskey, Lillian Smith, Edna Evans, Edith Reager, Jane Rothensberger, Martha Ammerman, Isabel Preston, Harriet Lancesser, Mildred Wheeler, Kath-

**Tea Dance**

Kappa Kappa Gamma members were hostesses at a tea dance Friday afternoon in the Alumni gymnasium.

Chaperones were the parents of the convocation members, Dean Blanding, Mrs. Holmes, Dean and Mrs. T. T. Jones, Miss Marguerite McLaughlin, Mr. and Mrs. James Park, and Miss Maria Borton.

Guests from other societies included: Chaperones, Mrs. T. T. Jones, Margaret Walker, Elizabeth Jones, Mary Heizer, Mary Marshall, Lucy Jean Anderson, Katie Woodburn, and Margaret Scott.

**Sigma Alpha Epsilon Banquet**

Sigma Alpha Epsilon entertained with a Founder's Day banquet at 6:30 o'clock Friday evening at the chapter house on South Limestone. The banquet followed the spring initiation of the fraternity.

The following initiates were honored or guests: Messrs. Clayton Congleton, Joe Craft, William Floyd, John Grouther, John Burke, Turner, Gordon Yancey, Jesse Keith, Stanton Dondoro, Charles Graves, C. T. Reich, Norman Jeff, Roger Barker, David Byrne, William Snyder, J. Rice Walker, Burnice Bates, William Richmond, James Cleveland, Pits Hugh Dade, James Long, and William Robinson.

**Delta Tau Delta Initiation**

Delta Epsilon of Delta Tau Delta held formal initiation Sunday afternoon at the chapter house on Forest Park road for the following men: Messrs. Steve Featherston, Robert Ellison, Morton Potter, Robert Fish, John Chambers, John Holmes, Robert Olney, Robert Freese, Phil Porterfield, Phil Slater, Bert Hallenberg, and Jimmy Miller.

Following the initiation a dinner was held in the red room of the Lafayette hotel. Mr. Ben Cooper, president of the chapter, presided, and presented Dean C. R. Melcher, who addressed the chapter.

The initiation team was composed of Fritz de Wilde, Ben Cooper, Alfred Miller, Cameron Coffman, Ralph Kercheval, Cal Cramer, and Wes Dodge.

**Chi Omega Alumnae**

Members of Chi Omega alumnae were guests at luncheon Saturday at the home of Mrs. Jack Bryan. Assisting hostesses were Mrs. C. Frank McKinley, Mrs. J. W. Harris, Mrs. Collis Ringo, Mrs. Tilford Wilson, Mrs. Thomas R. Underwood, and Miss Frances Allen.

Dinner guests were the table centerpiece, and Mrs. McKeekin poured coffee.

**Sigma Phi Epsilon Initiation**

Kentucky Alpha of Sigma Phi Epsilon announces the formal initiation of Messrs. Woodward Par-dal, Louisville; Dudley Flowers, Adairville; Jack Carty, Pineville; and Linwood Arnall, Lexington.

The initiation ceremony took place Sunday morning, March 3 at the chapter house on Aylesford Place. After the initiation, a breakfast was given and favors were presented to the initiates.

**FRATERNITY ROW**

Miss Dorothy Ann Dundon spent the week-end at her home in Paris with Misses Anna Bruce Gordon and Nancy Trimble spent the week-end at their homes in Winchester.

Ruth Martin spent the week-end in Cynthiana.

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**CINCINNATI**

Ev. Lexington Ar. Cincinnati

No. 2 Ponce de Leon, Carollia Spl. 5:15 AM CT 7:10 AM CT 8:10 AM ET  
No. 41 G. & G. Linn 6:15 AM CT 8:10 AM CT 9:10 AM ET  
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