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History of the University

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UNH Plates in Blue and White

Textbooks and Classroom Supplies

The University Bookstore**Colored Ski Movie
Slated for Jan. 22**

Are you a ski enthusiast? The Women's Recreation Association has secured a color sound movie, "Focus on Skis," which will be shown on Wednesday, January 22, at 6:30 and 8:00 p.m. in Murkland Auditorium. Admission is 25c.

The film, which is being sent from California, was taken by Frank Howard, one of the foremost ski photographers in the world.

The prize shot is a closeup in slow motion of Schroll's triple backward somersault down the "cliff." Jumping in slow motion will be shown and Hannes Schneider's world famous Arlberg technique will be another feature.

WRA NOTES**Interclass Basketball**

So far three Interclass basketball games have been played. The Sophomores won over the Freshmen with a score of 19-11, while the Seniors won their game with the Juniors by a score of 34-15. In the Freshmen-Junior game the Freshmen won by a score of 17-14.

The teams are as follows: In the Freshmen Class are Cathy Edmonds, Joan Coombs, Shirley Farrington, Persis Blair, Virginia Quinn, Ruth Garland, Pat Phelps, Betty Taylor, Joan Larsen, and Barbara French.

In the Sophomore Class are Janet Chase, Phil Messer, Winnie Fladd, Shirley O'Neil, Ingrid Ingles, Kay MacLaughlin, Charlotte Brown, Connie Garbutt, and Phil Karpinski.

In the Junior Class are Sharon Stepanian, Bertha Pepin, Ellie Gay, Ray Martin, Joyce Mitchell, Jean Deland, Jane Thurlow, Ellie Pierce, Betty Ann MacAskill, and Sarah Peavey.

In the Senior Class are Jane Friday, Elly Smith, Jean Spiller, Arie Whittemore, Doris Buser, Nat Kemp, Betty Caron, and Bobby MacCaubrey.

In addition to the Interclass games, an All-Star Squad will be chosen at the conclusion of the class games. Several outside games have been planned with other colleges. The squad will play Colby Junior College at Colby on February 22. Other games are with Nason College and Jackson College. The dates for these are not yet definite.

**Tufts Added to
UNH Grid Schedule**

Carl Lundholm, director of athletics, announces that Tufts, traditional Wildcat opponent, will return to the UNH football schedule in 1947.

The Jumbo team will take the place held by Boston University this year. All other opponents will be the same as in 1946. When UNH and Tufts cleavens met last — in 1942 — the Durham team was victorious by a 13 to 6 score.

The complete 1947 schedule:
Sept. 27 Colby at Durham
Oct. 4 R. I. at Kingston
Oct. 11 Maine at Durham
Oct. 18 Springfield at Springfield
Oct. 25 Vermont at Durham
Nov. 1 Northeastern at Boston
Nov. 8 Tufts at Durham
Nov. 15 Connecticut at Storrs

There will be a business meeting of the A.V.C. Thursday, January 9, in the Pine Room at Ballard Hall. Time: 7:30 p.m.

Congratulations to the winners of the recently completed Table Tennis Tournament. They are as follows: Connie Garbutt, Alpha Chi; Joan Stevens, Alpha Xi; Nancy Dinsmore, Brook House; Joyce Chandler, Chi Omega; Jan Kershaw, Commuters; Phyl Messer, Congreve North; Kathie McLaughlin, Congreve South; Ruth Belyea, Kappa Delta; Cathy Newell, Pi Lambda; Barbara Robinson, Phi Mu; Edith Simpson, Schofield; Fannie Lucas, Scott; Rae Martin, Smith; Norma Nickerson, Theta U.

DURHAM BULL

by R. C. O'Connor

During the Christmas vacation the only University team to enter competition was Ed Blood's ski squad which travelled to Lake Placid to take part in the annual College Week program sponsored by the Sno-Birds of the Lake Placid Club. Because of crowded conditions, each college was allowed to send only a five-man group. Those representing UNH were Ralph Townsend, Al Merrill, Ollie Cole, Roger Howard, and Lloyd Hawkensen.

The Wildcats skiers got off to a fast start by placing four men in the first ten to finish. They increased their lead on the following day when Ollie Cole came in fifth, Ralph Townsend, eighth, and Roger Howard, ninth in the downhill race; Townsend returned to win the slalom with Al Merrill third and Howard fourth.

On the final day of the meet, both Townsend and Lloyd Hawkensen fell and were disqualified from the jumping contest and St. Lawrence College of Canton, N. Y., led by Bob Wright and Don Colby went on to win the meet. Middlebury came in second and New Hampshire was third. Other colleges in the meet were: Dartmouth, Bowdoin, Colgate, Williams, and Penn State.

Just before the vacation, the University joined the Yankee Conference which is composed of all the State colleges and universities in New England. The Conference jumped the gun on the N.A.A.U. and agreed upon eligibility requirements similar to those in force before the war. The principal rule was in regard to transfer students who must now attend school for one year before being eligible for Varsity competition.

Paul Kennett, ace hoopster for Coach Ed Stanczyk, was the only man effected by the ruling and his loss is a serious one to a club that has had trouble finding itself thus far.

Tony Dougal and Pepper Martin have been molding the hockey candidates into a spirited team these cold afternoons. The nucleus of the squad is a group of returning icemen of former Dougal coached teams. The leader of the Wildcat sextet is flashy Don Perkins; other men showing pre-war form are Bill Forbes, Larry Reed, Lloyd Farwell, Bruce Singleton, and Jack Mudge. Two men who show a great deal of promise are Woody Noel, husky lineman of the 'Cat eleven, and Tom Kelly, fast-skating forward from Manchester.

The team's first game will be on Monday, Jan. 13, when they will tackle the Bowdoin Bears at Brunswick. Their first local appearance will be on Tuesday when they meet the sextet of Mass. State of Fort Devens.

The new rink which was completed during the vacation, is one of the best outdoor rinks in New England and the maintenance crew of the athletic department have worked hard to provide a good playing surface. Unfortunately the facilities for spectators are not the best, but those who are willing to brave the elements are sure of seeing some exciting games in this sport of legalized mayhem.

**Letters Awarded to Eight
Cross-Country Runners**

Eight runners have been awarded varsity letters for membership on the 1946 UNH cross-country team. Headed by team captain Silas B. Dunklee, the list includes Carter B. Gibbs, Vernon H. Hall, Joel E. Nordholm, Russell B. Chase, Rodney B. Webb, Richard M. Sweet, and Ralph D. Wells. Three of the men, Dunklee, Hall and Wells, are sophomores. All others are freshmen.

**Commuters to Have
Basketball League**

Next week another league will start operation in the Intramural basketball program. The existing leagues are composed of fraternities and dormitories, but the new one will be for the commuters. There will be four teams, Team 1 is from Dover (men with names beginning with A-L), Team 2 is also from Dover (names from M-Z), Team 3 is from Portsmouth and Team 4 is made up of all other commuters.

All games will be played at 12:45 p.m. and those teams that are listed in the schedule below are responsible for obtaining the referees and game equipment.

Jan. 13	Team 1 vs 4
14	2 vs 3
15	1 vs 3
17	4 vs 2
20	1 vs 2
21	3 vs 4
22	1 vs 4
24	2 vs 3
27	1 vs 3
28	4 vs 2
29	1 vs 2
30	3 vs 4
Feb. 11	Team 1 vs 4
12	2 vs 3
14	1 vs 3
17	4 vs 2
18	1 vs 2
19	3 vs 4

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Du Pont Digest

Items of Interest in the Fields of Chemistry, Engineering, Physics, and Biology

High-Pressure Synthesis Opens New Chemical Fields**A Challenge to Research Men
and Engineers**

The use of techniques involving pressures up to and above 1,000 atmospheres (15,000 lbs. per sq. in.) has had a tremendous influence on chemical manufacture in the past twenty-five years.

The availability of unlimited quantities of nitrates via ammonia from nitrogen of the air by high pressure synthesis has greatly affected chemical economics as well as agriculture.

The plastics industry, too, has benefited greatly by the reduction in price of urea from about 80¢ lb. to less than 4¢, and methanol (to give formaldehyde) from \$1.25 gal. to less than 25¢.

High pressure syntheses have also participated in a major way in the development of entirely new products such as nylon and polythene. In fact, starting from coal, air and water, Du Pont now makes over 120 widely used products.

In addition to improving the existing processes of manufacturing ammonia, methanol, higher alcohols, urea and other important chemicals, Du Pont organic and physical chemists, chemical, mechanical and metallurgical engineers have discovered and developed high pressure syntheses for the following: ethylene glycol; hexamethylene diamine; acetic, propionic and hydroxy-acetic acids; methyl formate; C₆-, C₁₀- and C₁₂-alcohols; and numerous others.

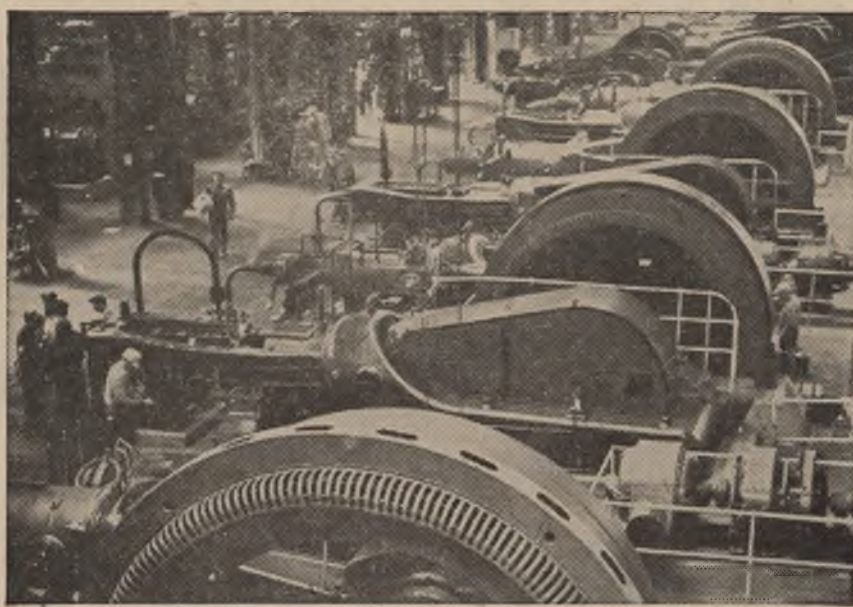
Advantages and Problems

The use of high pressures offers numerous advantages familiar to technical students, such as: (1) forcing an equilibrium in the direction of a volume decrease, (2) overcoming the reversing effect of high temperatures in exothermic reactions, (3) increasing reaction and through-put rates and (4) providing, in some cases, a liquid phase which might not otherwise be present.

The synthesis of urea from carbon dioxide and ammonia is a good illustration of some of these principles:



With three moles of reactants and only two of resultants, increase of pressure gives an expected increase in conversion.



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At the same time, the gaseous reactants are forced into the liquid phase to give higher concentrations and again better conversion. The reaction rate and therefore the rate of passage through the reaction chamber are both increased by increasing the temperature under high pressure conditions. There are other equilibrium considerations that affect the industrial production of urea, but they are too lengthy to discuss here.

Along with its advantages, the use of high pressure gives rise to problems that often severely tax the abilities of engineers and chemists. For example, (1) difficulties of design of packing glands, valves, connecting rods, closures, etc., increase rapidly with increased pressure, (2) extraordinary corrosion problems arise in which even stainless steels are attacked and cannot be used, (3) ordinary steels are permeable to hydrogen at higher pressures and temperatures. These are but a few illustrations of the challenge that high pressure studies present to the technical man and particularly to the metallurgical and mechanical engineer.

High pressure synthesis has now become a separate field of industrial chemistry with an apparently limitless future.

**Questions College Men ask
about working with Du Pont**

What kind of a technical
organization does Du Pont have?

There are ten manufacturing departments in Du Pont, each operating as a separate organization and each with its own research and engineering staff. In addition, there is a central chemical department and a central engineering department. Consequently there is a wide variety of research and engineering work available to chemists, engineers and other technical specialists. For further information write for the new booklet "The Du Pont Company and the College Graduate," 2521 Nemours Bldg., Wilmington, Delaware.



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Meet Your Profs

by George Buckley

On the second floor of Morrill Hall in a secluded corner of the building will be found an office veritably overflowing with volumes of histories, atlases, and dictionaries. This is the office of Professor Philip M. Marston, Associate Professor of History and Chairman of the Department of History.

Professor Marston was born in Center Harbor, N. H., in 1902 and went to a little country school there which was in the "reverse order of a typical little red school house, as this one was red on the inside and white on the outside." He attended high school at Ashland, N. H., and participated in dramatics there. After graduation, he came to the University of New Hampshire in the fall of 1920 and resided at Fairchild Hall. At this particular time of year, they were hauling field corn from the area which Hetzel Hall and the tennis courts now occupy. For three of his four years, he was a janitor at Barracks "A" or, as it is now known, West Hall. He also became a member of Phi Mu Delta and Phi Kappa Phi.

During his second term as a Senior, he acted in the capacity of an undergraduate assistant and, after graduating in 1924, he returned as a graduate assistant. An interesting sidelight on his graduation is the fact that his was the first graduating class to have "University of New Hampshire" stamped across the face of their diplomas because of the incorporation of the college into a university. In 1927, while working as a full time instructor, he received his M.A.

When Professor Marston resided here in the capacity of a student, there was little social life. He did belong to a small branch of the YMCA, which was the predecessor of the present SCM. There were three or four dances per year, but in 1923 social life was augmented by the establishment of the Franklin Theatre. A host of other activities, now non-existent, were participated in by the student body: New Hampshire Day, in which the students used to clean up the campus; poster fights, rope pulls between the freshmen and sophomore classes, and the picture fight, also between freshman and sophomore classes.

Professor Marston's main hobby centers around his collection of old books — those with a historical value, of course. His library now totals between 3200 and 3400 volumes, half of which may be found in his office. He attends many

Greek World

Greek World greets the New Year with the resolution that it will print news about the Greeks as long as there are any Greeks to write about. . . . During the holidays the brothers and sisters convened at various and sundry spots in suburban Boston. . . . Hear tell there were no chaperones. . . . Ah-h-h, vacation time! SAE's who have pinned their gals are: Dick Chase to Nat Fairchild, Stuart Hancock to Jean Pendleton, Jess Pushee to Sparky Peavey, Frank Farnham to Anne Thompson, Dave Ritchie to Jane Harrer, Sandy Brainerd to Marge Kohler, Tom O'Leary to Sally Snyder, George Riolo to Dorothy Goette, Ed Grieg to Rae Burbank, Bob Johnson to Doreen McTaggart, Ted Finnegan

and often buys the contents of houses, sight unseen, to increase his collection. In this way, he discovered some books written by the first Professor of Agriculture of this University when it was located at Dartmouth. He has written an article on New Hampshire for the Grolier Encyclopedia in addition to articles for The New England Naturalist magazine and the Old-Time New England, a bulletin published by the Society for the Preservation of New England Antiquities.

He comes by this interest in New Hampshire naturally, as his family settled in Salem, Mass., in 1634 and subsequently moved to Hampton, N. H. in 1638. One of his ancestors, John Marston, was a member of the Sons of Liberty during the American Revolution.

In addition to his other duties, he is a trustee of the New Hampshire Historical Society and was the managing editor of the "History of UNH" which was published in 1941 in celebration of the 75th anniversary of the founding of this college.

Thus Professor Marston continues to delve into the mysteries of the past in his all out search to unearth the unknown.



The year has been musically ushered in by all the record companies with new releases galore. Now a highly competitive business the industry will probably reach a new high in both the number and quality of the records produced this year. Our policy remains the same; to bring you the best as fast as possible.

Spike Jones fans will be happy to know that the "Jones Laughing Record," and "Hawaiian War Chant" are in. Don't say we didn't warn you.

Now on Victor records, the one and only Phil Harris started off on the right foot with "The Dark Town Poker Club" and "Woodman, Spare That Tree." Two amusing hits!

Tommy Dorsey's latest, "At Sundown," spotlights the amazing trumpet of Charlie Shavers in a sensational swing version of an oldie. The backing is a sweet tune called "To Me."

The 1947 Columbia Record Catalog is now available. A handy reference for all this company's releases this guide is a must for collectors.

The hot Monroe mob seem to have another hit on their hands with "You Can't See The Sun When You're Crying." Vaughn and the Moon Maids take vocal honors. "And So To Bed" backs in a fine dance groove.

The best jazz record in the land can now be obtained in our department. Commodore's impressive array of stars, too long to list, on a record surface second to none are an asset to all hot record collections.

Stan Kenton's first album "Artistry In Rhythm" has everything. Vocals by June Christy; those sensational arrangements; the Kenton piano; great soloists; and eight fine titles. Included are "Artistry In Bolero," "Willow Weep For Me," "Come Back To Sorrento," and "Opus In Pastels." Twenty-five minutes of thrilling music.

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to Betty Collins, Ralph Tierney to Doris Buser, Herb Blais to Bobbie Millbury, Al Waterman to Dot Miller and Buff Pingree to Mickey Warren. . . . The toast of Sigma Beta at present is Mickey Meserve's Irish setter "Beta." And, speaking of Mickey, G2 recently informed us that he's decided not to take that "Hill." Meanwhile, Ted Piciorak has joined Dave Oliphant in establishing a Sigma Beta beachhead at Scott Hall ("If you build a Beta mousetrap---"). . . . Several AGR men were present at TKE's very fine house dance on Friday. A fine time was had by all, even if brother Goodwin was nearly konked by a falling glass ball. The "eager beavers" of AGR have added to the already manifest beauty of the house by re-papering the entire hallway. . . . "The plaster blew, the glue flew, and in walked Ted Frink with a bucket of cement!" . . . The Phi Delta U's hauled their piano out of the house onto the Phi Mu

lawn and serenaded the gals for an hour or so by the light of parked automobiles. In reciprocation, Phi Mu's rewarded this display of talent (?) with a formal before the vacation and an informal get-together the Friday after. . . . Theta Chi has a skating rink in back of their house. Largely through the efforts of Bob Munroe, and others of course, it was completed in record time. The rink is available for Theta Chi's and any girl on campus or off-campus between the ages of 6 and 60 who like to skate day or night — they have floodlights. . . . Shorty Lange and Don Linscott of PMD shot a 10-point buck in the North Conway Country last weekend; they plan on bringing some of the meat to Durham to share with their brothers. What two Phi Mu Delta men took off for Boston in the middle of the night just "because they felt like it?" Head Chef Obie Waite sure furnished a fine Thanksgiving meal for the brothers

— everything from soup to six different kinds of pies. Brothers Diamond and Cummings enjoyed the hospitality of one of the best suites in the Hotel Buckminster in Boston a couple week-ends ago — what's the story, boys? Most PMD cars are out of the running these days — ever try anti-freeze, boys? . . . Chi Omega has recently initiated two sharp chicks: Midge Badger and Lois Plummer. . . . A friend of ours wants to see his name in print so here it is: "Red" Bechtel. . . . Jan Chase of Chi O is engaged to Lloyd Holmes of Portland, Fran Gartner is pinned to Kirk Benson of Theta Chi, Betty Collins has made Who's Who. . . . Alpha Xi's Pat Parker is pinned to

Bill Adams of ATO. . . . Four Theta U's have made Who's Who — Jane Whitney, Helen DeLotto, Betty Sawyer, and Anna Cook. B. J. Brown is engaged to Earl Blatchford. Theta U thanks PDU for the wonderful dance of a while back. . . . Theta Kap is batting a thousand — congrats to Ralph Pino, Tom Cotter, and Jim Powers on their presidencies. . . . Having said everything there is to say; let it stop here.

FRANKLIN

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