

## Rare Pancho Villa photos donated to A&M archives

Historically unique photographs of military activities along the Texas-Mexico border during 1913-14 have been given to Texas A&M University.

The collection of about 375 five-by-seven inch photographs was given by Mr. and Mrs. Thomas F. Smith of Houston. Smith is a 1921 graduate of A&M.

The photos were taken by Mrs. Smith's father, the late John Davidson Wheelan of Dallas. Wheelan was in the El Paso area directing a filming operation for Mutual Film Corp., producer of news documentaries.

The photos show military activities under the command of General Francisco (Pancho) Villa, ac-

ording to A&M archivist Dr. Charles Schultz. The Mexican revolution fighter is in several of the photos.

A famous pose of Pancho Villa astride his horse is an enlargement of a J.D. Wheelan photograph in the Smith collection.

Nearly all of the photographs are in excellent condition, Schultz said. They are applicable in research by military historians, and historians specializing in American revolutions and diplomatic relations, said Dr. Larry Hill, A&M history professor. The prints also reveal part of El Paso's past.

Hill said the finest Wheelan photos are in the Gustavo Casasola collection in Mexico City.

"Many photographs in this collection are not in the Casasola collection," Hill said. "The Smith collection has got to be an invaluable supplement to those archives."

## Oil man links big cars to U.S. energy problems

HOUSTON — An oil executive yesterday said energy conservation and research must be increased, but there is no need to panic.

"Let me emphasize that the world is not going to run out of oil tomorrow," John R. Hall, executive vice president of Ashland Oil Co., told the 83rd annual meeting of the American Institute of Chemical Engineers.

"There is still a lot of known oil in the world and perhaps a lot more to be found. We do not need to go back to the horse and buggy by 1980."

But Hall and Z. D. Bonner, chairman and chief executive officer of Gulf Oil Chemicals Co., said conservation and an expanded search for alternative energy sources are immediate necessities. They said the automobile was one of the areas where conservation is needed.

"We simply must jilt the great American love, the large car," Bonner said.

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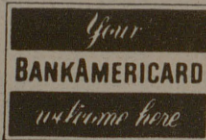
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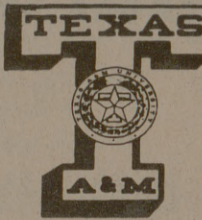
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# 'Windchill factor' often used incorrectly

Near the end of what probably will go down as the coldest U.S. winter on record, a Texas A&M University meteorologist says we ought to reexamine a term that has enjoyed wide usage this chilly year—the windchill equivalent temperature.

"Previously, it has been customary for forecasters to tell both the temperature in a particular location and what the temperature would be if the effects of the wind were taken into account," said Dr. Dennis M. Driscoll.

"This year, in some reports, the actual temperature wasn't given at all; we'd only hear that the windchill at Des Moines was down to -40 degrees."

"But like so many other applications of scientific concepts to everyday living, the windchill equivalent temperature is the proverbial double-edged sword. It is a valid concept understood by nearly everyone, but it may only be a very crude approximation to how you

perceive the uncomfortable combination of wind and cold."

To attempt such an evaluation, scientists would have to subject people to various conditions and then ask them their perceptions of comforts and uncomfortableness.

"This is asking for trouble because no two people would respond exactly alike," Driscoll explained. "Individual responses vary because of age, physical condition and state of health. Equally important are psychological factors and whether or not we like cold weather. A lumberjack in North Minnesota who earns his living under severe winter conditions is going to perceive differently than a little old lady in a retirement colony in St. Petersburg, Fla."

Driscoll suggested that science not even attempt to do something like this. What science can do is to find some physical analog to a human being, and then make relatively precise measurements of heat loss from it.

"The earliest attempts to do this can be traced to Paul Siple (you remember, the famous Boy Scout leader, explorer, adventurer?) in Antarctica. He set out a can of water at a known temperature and then, under varying air temperatures and wind speeds, noted the time it took the water to freeze," Driscoll continued.

"He discovered, to quote some figures, that it took that can of water just about the same length of time to freeze when the temperature was 32 degrees and the wind speed 40 mph as it did when it was two degrees with a five mph wind."

"You may already be thinking that this is an awfully crude approximation to heat loss from a human being, and indeed it is. Two striking differences should be apparent. First, the human is required to lose heat at some nominal rate at all times and, secondly, we can protect against extremes by dressing for the environment."

"These shortcomings in windchill

equivalent temperature were recognized and attempts were made to modify Siple's formula. Some even went so far as to 'clothe' the can of water," Driscoll said.

"Still, until a few years ago, the windchill equivalent temperature we heard on radio and television and magazines was based essentially on the presumed physical similarities between Homo Sapiens and a can of water."

In 1971 a professor of clothing and textiles took a more rigorous approach to the problem. R. G. Steadman developed a windchill equivalent temperature formula that explicitly accounts for nearly all the relevant variables.

He was able to calculate heat losses from a human due to convection and radiation, and even that due to respiratory heat loss (the air we exhale). He used aerodynamic theory to account for air movements, made some reasonable as-

sumptions about skin surface temperature at various parts of the body and even included the absorption of solar radiation.

Most important, he assumed an individual would be wearing heavy winter clothing. As his formula indicated that the equivalent of 10 degrees Fahrenheit in other words the wind is not as chilling."

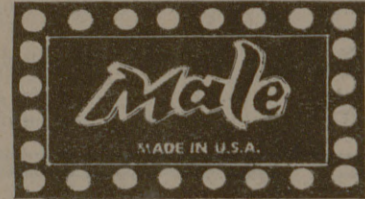
"So now we hear the windchill equivalent temperature to Steadman's formula, right? Unfortunately, that doesn't seem to be the case," Driscoll said.

"It's my guess that the agencies responsible for calculating windchill equivalent temperatures are using the old windchill and graphs and there's a great deal of error in the accuracy of these. In a recent issue of TIME magazine, windchill equivalent temperatures figured more extreme than Siple's used."



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# McDONALD'S INTRAMURAL HIGHLIGHTS



P. Thomas of Puryear I goes up for two as J. Siefried of Aston I tries to stop him in the All-University Basketball game. See story at right.

## Fencing Winners

The IM Fencing tournament was held all day Saturday, March 5 in the fencing room of G. Rollie White. In the Men's Division, Randy Davis took first while Mark Smith won second, followed by Alan Heerth at third. In the Women's Division, Susan Longhofer and Kathy Curiker were tied at 29 points each but Lonhafer beat Curiker in a match to take first while Marie Delony took third.

## Flickerball Finals

IM Flickerball action is in the final rounds this week with the All-University Championship to be held on Thursday, March 24, at 7:10 p.m. on the practice field behind Kyle Field. Tonight's games include the second place Corps team competing against the first place Independent team; Dorm first against Fish second, Independent second versus Corps first; Dorm second facing Fish first; and Corps first facing Dorm first. All of these games will be held at 7:10 p.m. except the last two, which will start at 8:10 p.m.

## Aston Takes All-U Basketball Title

In a highly exciting, action-packed All-University Basketball game on the floor of G. Rollie White, Aston I fought a last minute surge from Puryear I to win the Championship game 51-42. With large crowds from both Dorms cheering them on, the two teams did battle in what was to turn out to be a thrilling test of skill, speed, and determination.

The game started out to be an exchange of points with each team matching the other basket for basket. In the closing minutes of the first half, however, Puryear began to tire and Aston seized the opportunity to break out ahead and the half ended with Aston ahead, 29-21. Leading scorers for Aston in this first half were J. Tyree, with 9 points, and D. Welsh and R. Brown, both with 5 points. For Puryear, W. Harrington was the first half leader with 6 points followed closely by P. Thomas with 5.

The second half of action started out with Puryear determined to narrow the gap and catch up with Aston. Their efforts were valiant but their determination caused them to commit many fouls which resulted in point penalties that served to further widen the gap between the two teams. Their final attack came in the last minute of the second half when they were able to make Aston turn over the ball three times and thus inched six points closer. But it was not to be, as time ran out with the scoreboard showing 51-41 in favor of Aston. C. Clements was the leading scorer for Aston in the second half with 9 points, followed by W. Frost with 4, W. Harrington was once again leading scorer for Puryear with 6 points, with P. Thomas, D. Bourquein, and S. Brown next with 4 points each.

In Women's Class A action, BSU beat Fowler, 43-32 to take the

championship. Pam Williams was the leading scorer for BSU with 11 points, followed closely by Vickie Maxwell with 10.

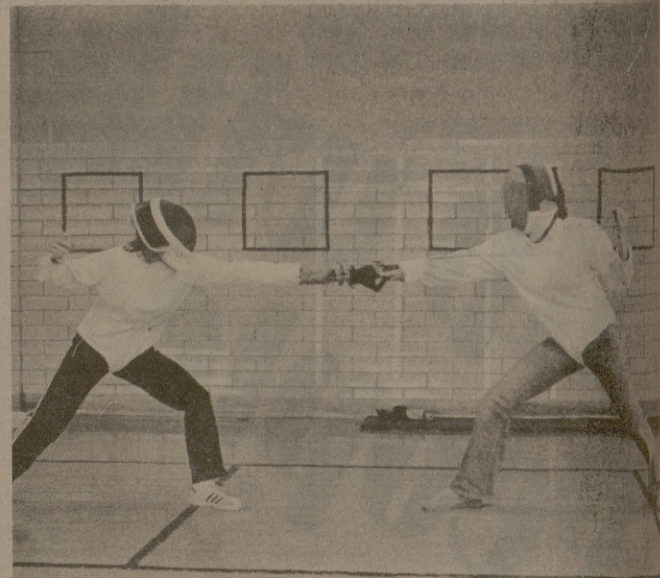
In Co-Rec action, however, the BSU team could not hold off the Shorties who won the Class A Championship with a score of 78-42. In this game, Marlene Carter of the Shorties was by far the leading scorer for both sides with an incredible 39 points.

Other Class A Divisional winners included C-2, Corps; D-2, Fish; Fat City, Men's Independent; and Fowler, Women's Dorm.

In Class B action, Mitchell's Barcelona beat the Wild Bunch, 46-42 to take the Men's Division while C-1 and Puryear II took the Corps and Men's Dorm titles, respectively. LD-50 beat the Sensuous Shooter, 25-18 to take the Women's Division, while the Giants beat L-1, 93-92 to win the Co-Rec Division.

The Vet Wives finished with an undefeated season, winning the Women's Class C title. The Junkies beat Tanglewood, 49-25 to win Co-Rec; and the C-Champions beat the Men's Dorm winners, Puryear VII, 54-27, to win the Men's Class C Title.

This year's Basketball season was the best yet with the most teams, games, and participants. We congratulate all of these winners and all who participated in the game.



Kathy Carifer (left) trades thrusts with Susan Longhofer in the Women's Division of the IM Fencing Tournament. Longhofer won the match to win the Division.

## Wrestlers Compete

The IM All-University Wrestling tournament was held on the main floor of G. Rollie White on Tuesday, March 8. Competition was in Class A and Class B with three periods for each match. In the 118 lb. class A, Bill Lewis of Leggett was the champion while Dave Nichols, an Independent, took the 126 lb. division. Scott Cariker of B-2 took the 134 lb. division and Steve Cooke, an Independent won the 142 lb. division. In the 150 lb. division, Roman Plugge of Davis-Gary pinned Terry Howard, an Independent, in the last second of the second overtime period to take the title. Al Dewey of Sq. 11 beat Bob Arnet of B-2, 8-0 to win the 158 lb. division. After 32 seconds of the second period, Kenneth Fulk of Sq. 4 pinned John

Gilberoino to take the 167 lb. division. Next, Jud Dudley of Puryear won a 12-3 decision over Mooney of L-1 in the 177 lb. division. Willy DeSoto of Sq. 1 pinned Bryan Collie of B-2 in the first period to win the 191 lb. division. And finally, in the Class A Unlimited weight division, Dave Fluener, an Independent, pinned James Wendland of F-1 in the third period to win.

In Class B wrestling, Doug Hearn, an Independent, took the 134 lb. division; Steve Salazar of Sq. 15 took the 142 lb. division; Walters, an Independent, won the 150 lb. division; Larry Wimmer M-2 won the 158 lb. title; Matt Leonard of Crocker took the 167 lb. match; and Steve McNiff of M-2 won the 177 lb. division.



Jim Junta referees as two contestants compete in the All-U Wrestling tournament.

This ad is sponsored by McDonald's on University Drive and is prepared by the Intramural Office, DeWare Fieldhouse. Photos and stories by Paul "Poogie" Nettell.