

Northwest School News

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NUMBER 1

National Honor Society Inducts Ten New Members

The Northwest School Chapter of the National Honor Society held its induction of new members at a special assembly at the school on March 20.

New members inducted into the National Honor Society were: Seniors — Nancy Diamond, Humboldt; Sharyn Ann Pake, Moorhead; Daniel Wilkens, Crookston; Mary Ostrem, Felton; Juniors — Bonnie Bohnsack, Hillsboro, N. Dak.; Ernest Swift, rural Crookston; Rodger Swanson, Arvilla, N. Dak.; Richard Olson, Larimore, N. Dak.; Edward Huot, Red Lake Falls; and Gerald Helgeson, rural Crookston.

Members of the Society participating in the indoctrination and induction of the new members included: Myrna Anderson, Mayville, N. Dak.; Leeila Tvinneim, Manvel, N. Dak.; Janice Steinhauer, Thief River Falls; Loretta Hanson, Reynolds, N. Dak.; Eric Fehr, East Grand Forks; and Allen Johnson, Kempton, N. Dak. — Seniors.

E. N. Reiersgord, principal, is faculty adviser to the Northwest School Chapter.

NW Aggies Had Successful Year in Athletics

The basketball and wrestling teams of the Northwest School followed in the footsteps of the undefeated football team of this past season by having outstanding teams.

In basketball, the team won the State Aggie tournament at Morris with a 21 win and a 2 lost record for the season. Co-captains of the team were Robert Jensen of Stephen and Paul St. Germain of Argyle.

The wrestling team also compiled an outstanding record this year winning 16 and losing 3 meets, giving the Northwest School one of its best years in athletics. Wrestling team co-captains were Gene Ovsak of Euclid and Donald Kaml of Greenbush; Rodney Mosher was wrestling coach.

Elected as co-captains of the two teams for next school year were: Basketball — Richard Rude, Grygla; Richard W. Olson, Larimore, N. Dak.; Wrestling — Edward Huot of Red Lake Falls and John Pake of Moorhead.

—by H. H. Lysaker, Coach and Athletic Director

53rd Commencement Held March 24

The Northwest School was honored by having Dr. Willard L. Thompson, assistant to the president of the University of Minnesota, as Commencement speaker at the graduation exercises on March 24.

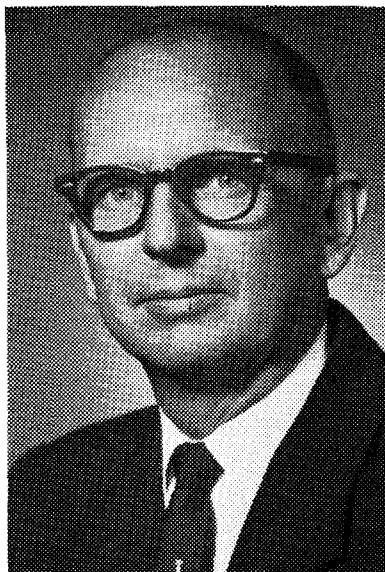
Ninety students received four-year diplomas. The class was presented by E. N. Reiersgord, principal; Superintendent B. E. Youngquist made the presentation of diplomas. The Reverend R. H. Manwiller of Crookston gave the invocation.

Greetings from the class of 1961 were given by Myrna Anderson of Mayville, North Dakota, who had the highest scholastic standing in her graduating class. The mixed chorus, under the direction of T. W. Thorson, sang two numbers; Donald W. Anderson, organist, played the processional and recessional.

The two seniors who received the Citizenship Award (James Weckwerth Memorial Award) were Janice Steinhauer of Thief River Falls—Senior girl, and Stuart Boelter of rural Crookston—Senior boy.

The second highest ranking student in the graduating class was Loretta Hanson of Reynolds, North Dakota. In addition to the two highest ranking students named, eight other students were on the scholastic list of ten highest seniors. In order of scholastic rank,

(Continued on Page 2, Col. 3)



Dr. Willard L. Thompson

Seniors Elect King and Queen for Senior Day

Stuart Boelter of rural Crookston and JoAnne Straus of East Grand Forks were crowned King and Queen of Senior Day at the Northwest School on March 16. The coronation was held as a part of the Senior Class Day assembly program. Also, the class history and class prophecy were read by class members.

A feature of the assembly program was the dedication of the 1961 school yearbook, "The Aggie," to A. M. Pilkey of the Northwest School staff who will retire in November, 1961. The Senior Class dedication in the yearbook stated, "The Senior Class of 1961 dedicate this book to Mr. Pilkey as a small tribute for his many years of dedicated and loyal service with the University of Minnesota and the Northwest School."

NWS Students Present Concert and Recital

The annual Student Spring Concert of vocal and instrumental groups at the Northwest School was presented in the school auditorium on March 19 under the direction of T. W. Thorson. Student groups participating in the concert were the mixed chorus, band, girls' glee club, mixed octette, girls' triple trio, and saxophone ensemble; also, vocal and instrumental soloists.

On March 22, piano students were presented in a recital in the school auditorium. Presented in recital were beginner, intermediate, and advanced students in piano who have been studying with Donald W. Anderson, piano instructor at the school.

Senior Class Stages Three-Act Comedy

"Look Who's Here," a comedy in three acts by Charles George, was the play given by the Senior class of the Northwest School of Agriculture on March 9. It was directed by Robert Dornquast of the English faculty.

Members of the play cast were: Sharyn Pake, Moorhead; Daniel Wilkens, Crookston; Janice Steinhauer, Thief River Falls; Adrian Van Dellen, Crookston; Nancy Diamond, Humboldt; Loretta Hanson, Reynolds, N. Dak.; Leeila Tvinneim, Manvel, N. Dak.; Shirley Sheldon, Bagley; and Richard Sanderson, Hillsboro, N. Dak.

Northwest School News

Issued Quarterly by
THE UNIVERSITY OF MINNESOTA
NORTHWEST SCHOOL OF
AGRICULTURE

B. E. Youngquist, Superintendent
Office
Northwest School and Exp't. Station
Crookston, Minnesota

NW Station Continues Mastitis Research

E. C. Frederick

Mastitis CAN and MUST be controlled! In a general way, the above statement sums up the results to date on a mastitis program that has been in effect for nearly two years at the Northwest School and Experiment Station.

The fact that mastitis MUST be controlled is being clearly demonstrated by measuring the actual production and other losses due to mastitis. The losses are much greater than ever suspected. The losses in milk production are being measured by quarter milking the cows at monthly intervals and noting the effect of mastitis on the individual quarter's production.

It is not unusual to find what would be termed a mild case of mastitis reducing milk flow by 2400 pounds as compared to calculated yields for the year. The data also indicates that the reduced milk flow will carry over into successive lactations.

Besides the staggering production losses, the losses from mastitis result in lowered quality milk, culling and replacement costs; also, treatment costs are high. Mastitis MUST be controlled.

The results to date in correcting the mastitis problem in the Experiment Station herd confirm the statement that mastitis CAN be controlled. Two years ago, it was not uncommon to find thirty per cent of the cows showing clinical mastitis. For the last six months, less than one per cent of the cows were showing mastitis. The way that mastitis is being controlled is being studied by noting the effect of mass changes in management, milking equipment, and housing.

The data indicates that mastitis is not easily controlled. Very little progress was made until the milking equipment was operating properly and until the management was at a level in which udder injuries were reduced to a minimum and the organisms were prevented from spreading from one cow to another.

The following milking practices are believed to have helped considerably in cutting down the incidences of mastitis:

Wash the udder with an individual towel at least thirty seconds, using

(Continued in Column 2)

Barley—An Excellent Ration for Growing-Finishing Swine

DIEDRICH REIMER and R. J. MEADE

BARLEY IS AN EXCELLENT FEED for growing-finishing swine. Pelleting of complete barley rations greatly improves the feeding value — as shown by more rapid and efficient gains.

Barley is higher in protein than corn, so less protein supplement is necessary. The protein supplement must be one that is relatively high in lysine, the most limiting essential amino acid in barley. Special attention must also be given to the mineral and vitamin A content of the supplement. Barley contains practically no vitamin A activity.

Pelleting of barley rations resulted in an average saving of 52 pounds of feed per 100 pounds of gain in initial studies at the Northwest Experiment Station, Crookston.

Results of a later study showed that pelleted barley rations were equal to a complete ration based on yellow corn for growing-finishing swine. In this test, pigs fed pelleted barley rations with soybean meal as the sole source of supplemental protein gained nearly as rapidly and efficiently as did pigs fed rations containing a mixture of soybean meal and fish meal as the source of supplemental protein.

The 7-percent increase in daily gains of pigs fed the ration containing fish meal may have been due to this protein being a better source of lysine than soybean meal.

The fourth group in the test was fed a pelleted barley ration in which meat and bone scraps and blood meal supplied the supplemental protein. This popular mixture has been used for several years. Pigs fed this 13-percent

protein ration throughout the entire feeding period also gained as rapidly as the pigs fed the corn ration. However, they required about 10 percent more feed per unit of gain than did pigs on any other treatment.

A subsequent test was conducted to compare bloodmeal, tankage, and fish meal as a part of the supplemental protein, along with soybean meal, in pelleted barley rations. The practice of feeding 14-percent protein rations throughout the growing-finishing period was compared with that of feeding 16-percent protein rations until the pigs weight 100 pounds, then 13-percent protein thereafter.

Rations of either protein level sequence were not improved by replacing a part of the soybean meal with blood meal, tankage, or fish meal. The pigs fed rations based on barley and soybean meal were the most efficient in converting feed to pork in all instances. Pigs fed the 14-percent protein rations throughout the entire feeding period gained just as rapidly and efficiently as did pigs given rations containing more protein until they weighed 100 pounds, then less thereafter.

Growing-finishing pigs make rapid and efficient gains when fed pelleted barley rations containing adequate protein, minerals, and vitamins — particularly vitamin A. Excellent results have been obtained when soybean meal supplied 60 percent or more of the supplemental protein in barley rations.

(Above article a reprint from "Minnesota Farm and Home Science.")

sanitizing solution of 110 to 120 degrees in order to clean the udder and stimulate milk let-down. Use a strip cup to check for mastitis.

Disinfect the teat cups between cows to prevent spread of organisms. Make sure there is a milk let-down before putting the machine on the cow.

Remove the teat cup as soon as the quarter is milked out to prevent irritation and apply disinfectant to the end of the teat to kill bacteria which may otherwise congregate at the teat opening.

The effect of housing changes on mastitis have not been studied as yet. The mastitis program will continue for a number of years before the data is completely summarized.

The College of Veterinary Medicine and the Dairy Department of the University of Minnesota, St. Paul, the DeLaval and David-Bradley Perfection Milking Machine Companies, and the local veterinarian, Dr. E. C. Stelter of Red Lake Falls, are cooperating in the mastitis project.

The results to date indicate that mastitis CAN and MUST be controlled!

COMMENCEMENT

HELD MARCH 24

(Continued from Page 1)

they include: Allen Johnson, Kempton, N. Dak.; Janice Steinhauer, Thief River Falls; Nancy Diamond, Humboldt; Daniel Wilkens, Crookston; Eric Fehr, East Grand Forks; Ernest Kouba, Pisek, N. Dak.; Susan Krueger, Niagara, N. Dak.; Harvey Peterson, Kempton, N. Dak.

NORTHWEST SCHOOL

Coming Events

4-H Club Week

June 5-9

Women's Camp

June 13-16

Alumni Reunion

July 18

Crops Day

July 18



Pictured above are students who won Championship and Reserve Championship awards at a recent Home Projects Awards Assembly held at the Northwest School of Agriculture, Crookston.

Byron Luchau of Ada and Janice Steinhauer of Thief River Falls received the Championship plaques for boys' and girls' 1960 summer home project work, respectively. Reading from left to right are: Jackie Bornsen of Inkster, N. Dak., and Gene Ovsak of Euclid—both Reserve Champions in boys' projects; Byron Luchau, boys' champion; Janice Steinhauer, girls' champion; and Myrna Anderson of Mayville, N. Dak., Reserve Champion in girls' projects.

In addition to the championship and reserve championship awards, Blue Ribbon awards were given in girls' home economics projects and boys' agricultural and other projects. The Erhard A. Anderson Horticultural Awards—cash awards—were also presented to thirteen students in horticultural home projects.

Championship Plaques Awarded at RRV Winter Shows

Through the cooperation of many valley-wide organizations, individuals, and business firms, a large number of plaques are donated for awards each year at the Red River Valley Winter Shows and Northwest School Farmers' Week at Crookston.

Receiving championship plaque awards at the 1961 shows which were held February 20-24 were:

CROPS: Drew Larson, Crookston—Master Crop Grower Award; Corn Northern Section—Lawrence Hoppe, Crookston; Corn, Southern Section—Eldon Larson, Rothsay; Potatoes, Sweepstakes—C. R. O. Sorrels & Sons, Williams; Small Grain Award—Larry Monson, Hallock; Legume Seed Award—Roger Dziengel, Kennedy; Barley Show sweepstakes—Alton W. Tinkham, Fisher; 4-H Corn, sweepstakes—Curtis Hoppe, Crookston; 4-H Potatoes, sweepstakes—Neil Rebarchek, Grace-ton; Master Silage Maker—Kenneth Miller, Crookston.

LIVESTOCK, Open Class: Best Sheep Flock—Robert Gee, Moorhead; Best Swine Herd—Carl Nilson, Park Rapids; Best Beef Herd—Schermerhorn Farms (R. Schafer, Mgr.), Mah-nomen; Best Dairy Herd—James R. Muzzy, Thief River Falls. Herdsman Awards: Sheep—Edgar and Arlen Olson, Fosston; Swine—Leland Olson, Climax; Dairy—James Muzzy, Thief River Falls; Beef—Ronald and Kenneth Baker, Ada.

LIVESTOCK — FUTURITY: Grand Champion—Sheep—Suzanne Hulteen, Clearbrook; Swine—Billy Gast, Beltrami; Beef—Thomas Werk, Herman; Dairy—Joan McTaggart, Campbell. Reserve Champions—Sheep—Arlen Olson, Fosston; Swine—Brent Aarestad, Halstad; Beef—Kathy Gronseth, Rothsay; Dairy—Eugene Paulsrud, Halstad. **Futurity Showmanship**—Sheep—Janice Haugen, Fertile; Dairy—Richard Visser, Ada; Swine—Leland Olson, Buxton, N. Dak.; Beef—Marilyn Gronseth, Rothsay.

PONY, SHETLAND: Hans Froslie, Vining—Grand Champion Shetland Mare; Harvey Werk, Herman—Grand Champion Stud.

JUDGING CONTESTS: 4 - Grain Clinic and Crops Judging Contest—Jerome Floottesch, Callaway; Potato Judging Contest—Lake of the Woods county; F. F. A. Crops Judging—Hallock High School; Farmers' Adult General Livestock Judging—Norman county; Farmers' Adult Dairy Judging—Climax; 4-H General Livestock Judging—Norman County; 4-H Dairy Judging—Roseau County, Team 2; Sub-collegiate livestock judging and sub-collegiate dairy judging—Northwest School of Agriculture, Crookston.

SPELLING CONTEST, R. R. V.: Donna Braud, Dalton, Otter Tail county.

WEATHER SUMMARY FOR 1960

Weather conditions for the past year in this area followed the long-time pattern in most respects. Even though the mean temperature for the year was slightly above normal, nine months were warmer than usual. February showed the greatest variance and was 3.4 degrees warmer than the long-time average. March was 9.2 degrees colder than average.

Rainfall for June, July, and August was above average and this extra moisture caused considerable flooding in this area. 7.08 inches of rain were recorded in June and this was nearly double the long-time average.

The total snowfall for the year measured 32.5 inches and was somewhat lower than usual. The snow melted down to 1.81 inches of water.

The first frost in the fall occurred on September 13 and caused some damage to garden crops. The killing frost came on September 30. The last spring frost on May 11 reached a low temperature of 26 degrees.

1960—WEATHER SUMMARY

	Snow-		Total 1960 inch	50-Yr. Average inch	Mean Temperature	
	fall inch	Rain inch			1960 Degrees	40-Yr. Av. Degrees
January	7.5	0	0.34	0.54	7.8	5.2
February	2.0	0.23	0.38	0.67	11.4	8.0
March	3.5	0	0.28	0.83	16.5	25.7
April	7.0	0.38	0.81	1.62	41.2	41.1
May	0	2.23	2.23	2.73	55.5	54.5
June	0	7.08	7.08	3.30	63.5	63.8
July	0	4.32	4.32	2.85	70.2	70.0
August	0	3.10	3.10	2.87	70.8	67.3
September	0	1.38	1.38	2.03	60.1	57.2
October	0	1.80	1.80	1.37	47.1	44.9
November	8.0	0.03	0.42	0.86	29.0	26.9
December	4.5	0.60	0.82	0.62	8.8	11.5
Total	32.5	21.15	22.96	20.29	40.15	39.47

—By Dr. O. C. Soine, Agronomist, Northwest School and Experiment Station, Crookston

Around and About With
NW School Alumni

*****News Regarding Northwest School Alumni, Former Students and Faculty:**

***Walter Fehr, '57, of East Grand Forks, graduated from the University of Minnesota, St. Paul, on March 16 with 'high distinction' — the highest scholastic honor awarded in the College of Agriculture. He majored in agronomy.

***The Reverend Richard J. Bonner, '45, is serving as pastor of the Bethany Lutheran Church, East Grand Forks. Pastor Bonner was at Underwood, N. Dak., before accepting the call to Bethany church.

***Herbert J. Auer, '51, of Waubun, is enrolled in the College of Education at the University of North Dakota, Grand Forks. He was on the Dean's List for high scholarship for the first semester of this academic year.

***Lt. Mardell L. Boyum, '55, of Mentor, is now stationed at Fort Leonard Wood, Mo., as executive officer and platoon leader in an engineer training camp. A graduate of the University of North Dakota, Grand Forks, in 1960, he received four years of ROTC training while in college. After receiving his commission as a second lieutenant, he continued his training at the U.S. Army Artillery and Missile School at Fort Sill, Oklahoma.

***Milton O. Warner, '20, of Spencer, Iowa, was recently named the Outstanding Man for Service and Civic Community Achievement in Spencer. He was presented a Certificate of Award by the businessmen of the city.

***Col. Clayton M. Isaacson, '39, is now stationed at Hamilton Air Force Base, California—Headquarters, 28th Air Division (SAGE).

***Morris Leonard Bailey, '55, is teaching in the high school at Gilby, North Dakota; also, he is coaching basketball and football. He graduated from Mayville Teachers' College in June, 1959.

***Mrs. Henry Boeddeker (nee Marilyn Jahnke, '59) is employed in the office of the U. S. Department of Agriculture, Soil Conservation Service, Hillsboro, N. Dak. Her address: P. O. Box 61, Hillsboro. Henry Boeddeker is employed with his brother, a contractor, at Hillsboro.

***Arthur Schroder, '59, of Meckinock, N. Dak., represented North Dakota, in February, at the eighth annual Junior Poultry and Egg Fact Finding Conference in Kansas City, Missouri. This is held in conjunction with the Institute of American Poultry Industries. He was one of the two Grand Forks county youths selected for the trip on the basis of their achievement in 4 - H poultry and other projects. Arthur is a

(Continued in Column 2)

NORTHWEST SCHOOL ALUMNI — A Letter From Your Alumni Association President

Your Alumni Association needs your support to continue the school spirit that all of us had when we were in school. We realize that many of us have been unable to attend alumni reunions in recent years because of other commitments at home; also, perhaps many have felt there would be no one from their class at the reunion.

We welcome you, now, to participate in alumni activities even though you cannot attend every reunion. If you could give a dollar—or more—to the Northwest School Alumni Fund, we will have a "working fund" and we can then go ahead and make more definite arrangements for our summer alumni reunion.

The reunion, this summer, is scheduled for July 18 following the Crops and Soils Day activities at the Northwest School. There will be special invitations for classes graduating in years ending in 1 or 6—(1916, as an example). Several special events are being planned for the reunion this year. They will be announced in a later issue of the Northwest School News.

The Alumni booth at the Winter Shows was a success again this year. A special thanks to the alumni who gave so generously of their time to assist at the booth. We are looking forward to the new Winter Shows building to do even more to welcome alumni of the school.

There is much more that the Northwest School Alumni Association can do for the school, the students, and the graduates when funds are available. Many graduates, in earlier years, had purchased life memberships in the Alumni Association. Lately, our only income has been the paid admissions to the reunion dance.

We appeal to all alumni to voluntarily support the Association.

Send your contribution to: Superintendent's Office, Northwest School of Agriculture, Crookston, Minnesota. Then too... we hope to see you at the ALUMNI REUNION.

March 21, 1961

Sincerely
Glen Torkelson, President
Northwest School Alumni Association

student at North Dakota State University, Fargo.

***Thomas A. Gray, '57, U.S.N., of Newfolden, is serving with the Fleet Airborne Electronics Training Unit, Pacific, Detachment One at the Naval Air Station at Alameda, California.

***Gretchen Connelly, '60, of Sabin, is employed at the American State Bank in Moorhead. Ina Ystebo, '60, of Twin Valley, is employed at the Bell Telephone Company in Fargo, N. Dak.

***Sylvia Jensen, '56 is a R. N. staff nurse at the Bethesda Lutheran Hospital, St. Paul. She graduated from Gustavus Adolphus College, St. Peter, in June of 1960, with a Bachelor of Science degree in nursing.

***David Jensen, '59, A/2C, is in the United States Air Force as of August 1959. He is an airman police and is stationed at Francis E. Warren Air Force Base in Cheyenne, Wyoming. His address: A/2C David Jensen, AF 175 547 23, Box 1350, F. E. Warren, AFB, Cheyenne Wyoming.

***Gary Ovsak, '60, of Euclid, USN, graduated as honorman from the Basic Machinist's Mate School at the Naval Training Center, Great Lakes, Ill., on November 4.

***The Northwest School Alumni Association sponsored an information booth at the Red River Valley Winter Shows, Crookston, in February. Glenn Torkelson, president of the association, was chairman of arrangements; he was assisted by Paul Engelstad, secretary.

(Continued in Column 3)

A number of alumni, in the surrounding area, assisted each day at the booth to register alumni and give information to Winter Shows visitors.

Marriages

***Miss Patricia Ann Ayotte of Oklee to Darrell S. Stengl of Tabor on January 5 at Oklee. Their address: Angus, Minnesota.

***Miss Helen Martini of Hallock to H. Alden Peterson of Hallock, on January 7, in Hallock. Their address: Route 1, Hallock, Minnesota.

***Miss Patricia O'Boyle of Crookston to Melvin M. Larson of Crookston, on February 25, in Crookston. Their address: Crookston, Minnesota.

***Miss Linda Curtis of Campbell, California, to Keith C. Chapman of Crookston, on March 17, in Campbell, California. Their address: 3225 Cadillac Dr., San Jose 28, California.

***Miss Sheryl Eisert to Ray M. Hughes, on September 15, 1960, at Whittier, California.

Births

***To Mr. and Mrs. Orville Lee (nee Edith Bergeson), a daughter on November 15, 1960. Their address: Fertile, Minnesota.

***To Mr. and Mrs. Leo Ash of Orleans, a son and daughter — twins, on Sept. 27, 1960.

***To Mr. and Mrs. Roland J. Gulekson, of Fertile, a daughter on October 1, 1960.

***To Mr. and Mrs. Leonard Blade (nee Anna Mae Ecklund) of Alexandria, a daughter Carol Lynn, on January 16, at Alexandria, Minnesota.