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## August 4, 1960

The Dakota Student

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# Largest Summer Class to Graduate

## The Dakota Student

SUMMER SESSION THURSDAY, AUGUST 4, 1960 NUMBER 8

### Four University Undergraduates Repeat As Chester Fritz Scholarship Winners

Four undergraduate students at the University of North Dakota and one 1960 high school graduate are winners of Chester Fritz Scholarships to UND. Each winner receives \$800.



Miss Frost

this fall as a freshman. The four UND undergraduates also received Fritz Scholarships last year.

The awards for this year will total \$5,000 when the winner of a \$1,000 scholarship for graduate study at UND is named. This is the fourth year that Fritz Scholarships have been awarded, according to Dean D. J. Robertson, secretary of the University Scholarship Committee.

The Fritz Scholarship winners are selected on the basis of individual character, dependability, scholarship and leadership.

Fritz, who contributed a million-dollar library to the University which is now under construction, is a native of Buxton and a graduate of Lidgerwood high school. He attended UND, 1909-10, and received an honorary doctors degree in 1952.

Biographical information on the winners follows:

Miss Frost, a sophomore majoring in mathematics at UND, received a 2.8 of a possible 3.0 academic average her first year. She is a member of Alpha Lambda Delta, freshman women's honorary society; concert band and University orchestra.

Winners are Frances Frost, Lidgerwood; Douglas McLeod, Barney; Thomas Owens, Devils Lake, and Bonita Schmidt, Riverdale, all UND undergraduates. David McKenzie, Dickinson, will enroll at UND

McKenzie graduated third in a class of 122, and he plans to study engineering at UND. He was president of the junior class, "D" club and religious group. He was vice-president of the National Honor Society in his high school, placed second in the Elk's leadership contest and was a member of Thespians.

McLeod, who received a 2.79 of a possible 3.0 academic average during his first year, is a sophomore majoring in mathematics. He is a member of Varsity Bards and a campus religious group. He graduated second in his high school class.

Owens, a sophomore majoring in chemical engineering, received a 2.65 of a possible 3.0 in his first year at UND. He graduated first in his high school class. He is a member of Student Council, Walsh Hall Dormitory Council, and was selected

(Continued on page 4)



Owens



Miss Schmidt



McLeod



McKenzie

### Mall Will Be Scene Of Commencement Saturday Morning

The largest summer session class in the history of the University will be graduated Saturday, August 6 at 10 a.m. Two hundred twenty-six students are listed as candidates for degrees.

Commencement exercises will be held outdoors on the mall between the old and new library buildings. If it should rain activities will be in the Fieldhouse.

Dr. Roald Fay Campbell, professor of education administration at the University of Chicago, will be the main speaker. His topic will be "The Growth of the National Policy for Education."

The invocation and benediction will be pronounced by the Rev. Kenneth Spilman, pastor, United Campus Christian Fellowship at the University.

The audience, accompanied by the University summer session band, will sing the National anthem and the Alma Mater.

Members of the commencement committee will serve as ushers.

Grey Gowns, juniors selected on the basis of high scholarship, will be honorary marshalls. They are Johnnye F. Bridges, Lubbock, Tex.; Mary L. Duncan, Sharon; Nancy K. Erickson, Fargo; David B. Grindelund, Grand Forks; Bonnie J. Hanseth, Gilby; Judith A. Harju, Wing; Patrick M. McMahon, Devils Lake; Lowell B. Meier, Napoleon; Katherine R. Meyer, Milnor; James R. Miller, Carrington, and Mary J. O'Toole, Crystal.

Following is the list of candidates for degrees:

#### COLLEGE OF SCIENCE, LITERATURE AND ARTS

##### Degree of Bachelor of Arts

Wilbur John Aiken, Minot; Linus Virgil Kovar, East Grand Forks, Minn.; Patricia Clair Bettschen, Grand Forks; Robert Delmar LaFleur, Mayville; J. Robert Brouse, East Grand Forks, Minn.;

Owen Harlan Larson, Binford; William Daryl Brouse, Grand Forks; Daniel Robert Moga, Minto; Janice V. Grove Byrne, Rugby; James Gilbert Movius, Lidgerwood; Philip Rial Myerchin, Forest River; Norvin Ross Curtis, Sables; Carol Jane Winkler, Naperville, Ill.; Chester Arthur Yon, Bathgate.

##### Degree of Bachelor of Science

Wesley Annal Christenson, Minot; Arl-

(Continued on page 4)

# Tentative Program of Courses Prepared For 1961 Summer Session at University

Preliminary plans for the 1961 summer session at the University of North Dakota have been completed. The general organization of the 1961 session will be like the present session, Dean C. J. Hamre, director of the summer session announced this week.

The summer session for 1961 will be for the eight week academic session beginning with registration on Tuesday, June 13, and ending August 5.

Courses will be offered for the eight week period and also for four week periods. The first four week academic session will begin on June 13 and end on July 7, while the second four week academic session will begin July 10.

## LIST OF COURSES TENTATIVELY PLANNED FOR 1961 SUMMER SESSION

Course No.	Subject	Credit
102	Elements of Accounting	3
201	Elements of Accounting	3
208	Budgeting	2
302	Intermediate Accounting	3
305	Cost Accounting	3
306	Standard Costs	2
401	Accounting Problems	3
405	Auditing	2
410	Income Tax Procedure	3
412	Analysis of Financial Statements	2
500	Contemporary Readings in Accounting	2
501	Seminar in Accounting Problems	2-4
502	Seminar in Accounting Problems	2-4
503	Accounting Theory	2
508	Special Problems in Income Tax Procedure	2
315	Business Law	3
316	Business Law	3
415	Advanced Business Law	2
501	Advanced Anatomy	Arr.
503	Research in Anatomy	Arr.
104	Design	2
411	Painting II	3
460	Methods and Materials for Elementary Teachers	3
501	Viruses	3
502	Immunology	3
503	Medical Mycology	3
510	Special Problems in Bacteriology	2-6
504	Special Problems in Biochemistry	1-6
510	Research in Biochemistry	2-6
514	Biochemical Literature	1
164	General Biology	4
336	Systematic Botany	4
515	Improvement of Instruction in Typewriting	2
517	Improvement of Instruction in Shorthand and Transcription	2
520	Improvement of Instruction in the Basic-Business Subjects	2
522	Improvement of Instruction in Office Machines	2
524	Business Education in the Secondary School: Theories and Practices	2
525	Improvement of Instruction in Bookkeeping	2
526	Supervision of Business Education	2
535	Introduction to Research in Business Education	2
536	Seminar in Business Education	2
537	Business Education in the Post-Secondary School	2
538	Research in Business Education Thesis	3

Course No.	Subject	Credit
106	General Chemistry	4
212	Organic Chemistry	5
301	Special Problems in Chemistry	1-3
401	Inorganic Chemistry	3
415	The High School Laboratory	3
429	Senior Research	Arr.
589	Research	Arr.
202	Analytical Mechanics (Statics)	2
301	Mechanics of Materials	3
302	Fluid Mechanics	3
305	Analytical Mechanics (Dynamics)	3
437	Foreign Trade and Exchange Seminar	3
201	Introduction to Education	3
213	Educational Psychology	3
340	Practicum and Professional Laboratory Experiences in Education	2
341	General Methods, Materials, Evaluation and Guidance in Secondary Education	5
342	Methods and Materials in Arithmetic	2
343	Methods and Materials in the Language Arts	4
345	Methods and Materials in Elementary Science and Social Studies	4
351	Child Psychology	3
381	Selection of Library Materials	3
417	Education of Mentally Handicapped Students	3
418	Education of Superior Students	2
443	Kindergarten-Primary Education	3
445	Modern Teaching Procedures in the Elementary School, Part II	3
450	Methods and Materials in Elementary Music	3
455	Student Teaching Laboratory	1-3
456	Supervised Teaching in the Elementary School	1-3
460	Methods and Materials in Elementary School Art	3
463	Methods and Materials in English	3
474	Methods and Materials in the Social Sciences	3
476	Supervised Student Teaching in the Secondary School	1-3
479	Professional Problems in Student Teaching	1
481	Cataloging and Classification for Small Libraries	3
484	Literature for Children	3
500	Introduction to Graduate Study and Research in Education	2
501	Advanced Educational Psychology: Learning	2
503	Philosophies of Education	2
505	Guidance Principles and Practices	2
506	Comparative Education	2
507	Audio-Visual Materials and Equipment	2
508	Preparation of Audio-Visual Materials	2
509	Extra-class Activities	2
511	Educational Testing and Evaluation	2
520	Reading in Education	1-4
525	Educational and Psychological Statistics, Part I	3
528	Individual Research in Education	1-4
529	General Seminar in Education (Education of Exceptional Children)	3
531	Organization and Administration of the Elementary School	2
533	Curriculum in the Elementary School	2
535	Supervision of the Elementary School	2
539	English and Reading in the Elementary School	2
543	Social Studies and Science in the Elementary School	2
548	Individual Research in Elementary School Education	1-4
552	Improvement of Instruction in the Secondary School	2
553	Secondary Education Curriculum	2
555	Secondary Education Supervision	2
568	Individual Research in Secondary Education	1-4

570	Basic Principles of Educational Administration	2
572	Problems of Rural Education	2
575	The Educational Plant	2
577	School Law	2
579	Public Relations for Schools	2
581	Public School Revenue	2
588	Individual Research in School Administration	1-4
590	Supervision of Student Teaching	2
591	Higher Education in the United States	2
598	Individual Research in Higher Education	1-4
101	Engineering Drawing	2
102	Engineering Drawing	2
201	Advanced Engineering Drawing	2
434	Network Analysis (For EE 303 and 304 see Four Week Schedules)	4
101	Freshman English	3
102	Freshman English	3
213	Introduction to Poetry	2
223	American Literature	3
315	Shakespeare	3
331	English Romantic Poets	3
442	History of the English Language	3
505	Readings in English Literature	1-4
506	Readings in American Literature	1-4
513	Bibliography and Methods of Research	3
516	Seminar: American Literature	3
523A	Research in American Literature	1-4
523E	Research in English Literature	1-4
523L	Research in Language	1-4
101-102	Beginning French	6
201	Second-Year French	3
103	Regions and Nations of the World	3
455	Political Geography	3
573	Independent Study	1-4
101	Europe 500-1500	3
104	United States Since 1865	3
302	Social and Cultural History of Europe, 1500-1789	3
305	Political and Diplomatic History of Europe, 1815-1918	3
417	History of Russia	3
418	Succession States of Central Europe	3
420	American Historians	3
501	Introduction to Research in History	3
515	Seminar in Modern Western European History	3
316	Elementary Crafts	2
412	Basic Electronics	3
480	Experimental Materials and Processes for Industrial Arts	3
509	Special Problems in Industrial Arts	1-2
536	Organization and Supervision of Industrial Arts in the Elementary and Secondary Schools	2
544	Advanced Industrial Arts Drafting and Design	2
202	Reporting	3
451	Phonetics and Phonemics	5
452	Morphology-Syntax	5
503	Advanced Linguistic Analysis	5
504	Area Linguistics	5
505	Readings in Linguistics	Arr.
305	Management of Small Business Enterprises	3
401	Corporation Finance	3
404	Business Policies and Management	3
311	Marketing	3
312	Principles of Retailing	3
413	Problems in Marketing	3
511	Seminar in Marketing	3
513	Special Problems in Marketing	3
101	College Algebra (A)	5
105	Trigonometry	3
106	Analytic Geometry	3
201	Differential Calculus	4
202	Integral Calculus	4
310	College Geometry	3
403	Theory of Probability	2
412	Differential Equations	3
414	Vector Analysis	3

(Continued on page 3)

# '61 Summer Courses

(Continued from page 2)

422	Mathematical Theory of Statistics	3	593	Psychological Readings	2	503	Advanced Physiology and Pharmacology	Arr.
501	Advanced Calculus	3	596	Individual Research Thesis	Arr.	506	Problems in Research	Arr.
502	Higher Algebra	3		<b>Jamestown</b>		511	Research in Physiology and Pharmacology	Arr.
	<b>Mechanical Engineering</b>		583S	Internship in Clinical Psychology	3		<b>Political Science</b>	
242	Elementary Thermodynamics	3	591	Seminar in Clinical Psychology	2	308	Current Political Problems	3
462	Engineering Economy	3		<b>Religion</b>		509	The Executive Process	3
	<b>Music</b>		107	Introduction to Religion	2		<b>Psychology</b>	
111	Sight Reading, Ear Training and Harmony	3	205	Religious Values in Modern Literature	2	101	Introduction to Psychology	3
219	Summer Session Chorus	1/2	235	Christianity, Marriage and the Family	2	213	Educational Psychology	3
223	University Band	1/2		<b>Social Work</b>		460	Mental Hygiene	2
229	Voice Class	1	447	Field Practice	5	Educ. 505	Guidance Principles and Practices	2
301	Conducting	1		<b>Sociology and Anthropology</b>		414	Peoples and Cultures of Northern Eurasia	3
406	Composition	2	201	Introduction to Sociology	3		<b>Speech</b>	
411	Orchestration, Instrumentation and Arranging	3	276	Cultural Anthropology	3	505	Research Problems in Speech	1-3
427	Music Education for Elementary Music Teachers (2-wk. workshop)	2	314	The Human Community	3		<b>Second Four Weeks Session</b>	
487	Band Directors Course	2	318	Social Stratification	2	July 10-August 5		
490	Advanced Methods for Teaching Woodwinds	1		<b>Speech</b>			<b>Anatomy</b>	
505	Advanced Counterpoint	2	101	Fundamentals of Public Speaking	3	501	Advanced Anatomy	Arr.
558	Research in Music Education	1-4	232	Introduction to Speech Correction	3	503	Research in Anatomy	Arr.
568	Administration and Supervision of Public School Music	3	305	Discussion	3		<b>Art</b>	
	Applied Music: private lessons in:	1/2-1		or		106	Elementary Art	2
	Brass		421	Directing High School Dramatics and Speech Activities	3	517	Wood Cut	2
	Woodwinds		316	Television Production	3		<b>Bacteriology</b>	
	Organ		334	Clinical Practice in Speech Correction	1-2	510	Special Problems in Bacteriology	2-6
	Piano		433	Advanced Speech Correction	3		<b>Biochemistry</b>	
	Voice		436	Stuttering and Allied Disorders	3	504	Special Problems in Biochemistry	1-6
	<b>Philosophy</b>		501	Seminar	3	510	Research in Biochemistry	2-6
105	Man and Ideas	3	506	Research Problems in Speech	1-3	514	Biochemical Literature	1
201	Introduction to Philosophy	3		Educ. 475 Methods and Materials in Speech	3		<b>Business Education</b>	
406	Philosophies of the Twentieth Century	2		<b>First Four Weeks Session</b>		538	Research in Business Education	2-3
416	Independent Studies	1-3		June 13-July 7			Thesis	1-6
503	Philosophies of Education	2-3		Final examinations for first four weeks session—July 7.			<b>Distributive Education</b>	
	<b>Physical Education</b>		318	Developmental Anatomy	2	565	Coordination Methods in Distributive Education	2
125	Beginning Swimming	1	501	Advanced Anatomy	Arr.	566	Problems in Distributive Education	1-3
219	Advanced Swimming	1	503	Research in Anatomy	Arr.		<b>Civil Engineering</b>	
505	Physical Education Curriculum	2		<b>Art</b>		561	Civil Engineering Research	1-3
506	Tests and Measurements in Physical Education	2	105	Elementary Art	2		<b>Economics</b>	
507	Methods in Teaching Physical Education Activities	2	200	Illustration	2	202	Principles of Economics II	3
511	Administrative Problems in Physical Education	2		<b>Bacteriology</b>		577	Readings in Economics	1
512	Current Problems, Literature and Research in Physical Education	3	510	Special Problems in Bacteriology	2-6		<b>Education</b>	
513	Individual Research in Physical Education	1-2	504	Special Problems in Biochemistry	1-6	417	Education of Mentally Handicapped Students	3
514	School Health Workshop	1	510	Research in Biochemistry	2-6	418	Education of Superior Students	2
520	Advanced Administration in Physical Education for Women	2	514	Biochemical Literature	1	505	Guidance Principles and Practices	2
530	Health Education Curriculum	2		<b>Business Education</b>		515	Contemporary Issues and Trends in Education	2
540	Advanced Kinesiology	3	538	Research in Business Education	2-3	520	Readings in Education	1-2
	<b>Physics</b>			<b>Distributive Education</b>		527	Workshop in Education	1-2
203	General Physics Laboratory	4	564	Organization and Supervision of Distributive Education	2	528	Individual Research in Education	1-2
204	General Physics Laboratory	4	566	Problems in Distributive Education	1-3	548	Individual Research in Elementary Education	1-2
501	Mathematical Physics I	2	561	Civil Engineering Research	1-3	568	Individual Research in Secondary Education	1-2
502	Mathematical Physics II	2	201	Principles of Economics I	3	569	Seminar in Secondary Education	2
503	Foundations of Modern Physics	3	530	Workshop in Economic Education	4	579	Public Relations for Schools	2
547	Research	Arr.		<b>Education</b>		588	Individual Research in School Administration	1-2
417	Readings in Physiology and Pharmacology	Arr.	506	Comparative Education	2	598	Individual Research in Higher Education	1-2
501	Physiology and Pharmacology	Arr.	509	Extra-class Activities	2		<b>Electrical Engineering</b>	
503	Advanced Physiology and Pharmacology	Arr.	511	Educational Testing and Evaluation	2	304	Electrical Circuits Analysis	3
506	Problems	Arr.	520	Readings in Education	1-2	530	Advanced Electrical Engineering Problems	Arr.
511	Research in Physiology and Pharmacology	Arr.	527	Workshop in Education	1-2		<b>Geography</b>	
	<b>Political Science</b>		528	Individual Research in Education	1-2	467	China and the Soviet Union	2
101	American Government I	3	529	General Seminar in Education (Education of Exceptional Students)	2	562	Economic Geography	2
510	Major Problems in American Foreign Policy	3	548	Individual Research in Elementary Education	1-2	573	Independent Study	1-2
	<b>Psychology</b>		549	Seminar in Elementary Education	2		<b>Home Economics</b>	
101	Introduction to Psychology	3	568	Individual Research in Secondary Education	1-2	307	Consumer Buying	2
213	Educational Psychology	3	572	Problems of Rural Education	2	417	Experimental Cookery	3
351	Child Psychology	3	588	Individual Research in School Administration	1-2		Lecture and Laboratory	
370	Abnormal Psychology	3	598	Individual Research in Higher Education	1-2		<b>Mechanical Engineering</b>	
460	Mental Hygiene	2		<b>Electrical Engineering</b>		408	Special Laboratory Problems	1-3
501	Advanced Educational Psychology: Learning	2	303	Electrical Circuits Analysis	3	501	Research in Mechanical Engineering	1-3
510	Advanced Educational Psychology: Dynamics of Self	2	530	Advanced Electrical Engineering Problems	Arr.		<b>Philosophy</b>	
517	Individual Appraisal	3		<b>Geography</b>		416	Independent Studies	1
518	Group Guidance	2	452	Urban Geography	2	547	Research	Arr.
519	Occupational and Educational Information	2	475	Geography for Teachers	2	417	Readings in Physiology and Pharmacology	Arr.
521	Counseling	3	561	Economic Geography	2	503	Advanced Physiology and Pharmacology	Arr.
522	Organization and Administration of Guidance and Personnel Program	2	573	Independent Study	1-2	506	Problems in Research	Arr.
523	Supervised Guidance	2		<b>Home Economics</b>		511	Research in Physiology and Pharmacology	Arr.
550	Psychology of the Exceptional Child	2	406	Child Development	3		<b>Political Science</b>	
570S	Clinical Appraisal I: Individual Intelligence Testing	3	424	Adult Education	2	210	Foreign Governments	2
577	Supervised Field Work	3	408	Special Laboratory Problems	1-3	414	Introduction to Public Law	3
			501	Research in Mechanical Engineering	1-3		<b>Psychology</b>	
				<b>Philosophy</b>		101	Introduction to Psychology	3
			416	Independent Studies	1	213	Educational Psychology	3
				<b>Physics</b>		460	Mental Hygiene	2
			547	Research	Arr.	Educ. 505	Guidance Principles and Practices	2
			417	Readings in Physiology and Pharmacology	Arr.		<b>Sociology</b>	
				<b>Physiology and Pharmacology</b>		312	Indians of North America	3
				<b>Speech</b>			<b>Speech</b>	
						506	Research Problems in Speech	1-3

# Commencement

(Continued from page 1)

low Jimmy Goehring, Bismarck; Howard Allen Larson, Donnelly, Minn.

## Degree of Bachelor of Philosophy

Jan Booth Campbell, Haymes; Clifford M. Jochim, Bismarck; Donald R. Carroll, Grand Forks; Ronald Walter King, Fort Frances, Ontario, Canada; Roderick Scott Chapman, Rugby; Roger Wayne Linderman, Barlow; Theron Alfred Christenson, Hibbing, Minn.;

William B. Mulry, Eldred, Minn.; Richard Michael Desautels, Grand Forks; Lester Eugene Peterson, Lancaster, Minn.; Delano Hafter Einess, Grand Forks; Karen Cyleste Stevens, Williston; William Parsons Hammer, Cooperstown, Carl Arthur Wardner, Jr., Grand Forks; Duane Luther Younggren, Northote, Minn.

## Degree of Bachelor of Science in Chemistry

Merwin LeRoy Odenbaugh, Beach.

## Degree of Bachelor of Science in Home Economics

Karen Annette Mund, Larimore.

## COLLEGE OF EDUCATION

Degree of Bachelor of Science in Education and Bachelor's Diploma in Teaching

Dongbang Ahn, Seoul, Korea; Phyllis Joan Osmer Hermes, Glen Ullin; Charles Melvin Asche, Clara City, Minn.; Stephen Montgomery Hinman, Oakland, Calif.; Arlis Rae Atwood, Minot; Charles Francis Keenan, Portal; Mary Ann Frances Czapiewski, Oslo, Minn.; Rochelle Stolee Knudsen, Grand Forks;

Mildred E. Elie, East Grand Forks, Minn.; Bernice Lilleoien, Grand Forks; Laura H. Fretland, East Grand Forks, Minn.; Glen Norris Olson, Oslo, Minn.; Mildred Carolyn Granger, Grand Forks; Janice Udgaard Rorvig, Aneta; Mildred Catherine Gratz, New Salem; Edward Charles Thomlinson, Sault Ste. Marie, Ontario, Canada; Janice Helen Hauf, Max; Patricia Fling Wasdahl, East Grand Forks, Minn.

## SCHOOL OF LAW

Degree of Bachelor of Laws

Brian Webb Keohane, Beach.

## COLLEGE OF ENGINEERING

Dennis Jerome Severson, Park River and Thomas D. Stuart, Hillsboro.

## Degree of Bachelor of Science in Civil Engineering

John Richard Harty, Grand Forks; Don Earl Keyes, Towner and Ken Frank Kobetsky, East Grand Forks, Minn.

## Degree of Bachelor of Science in Electrical Engineering

Wesley Myron Nelson, Lakota and Ove Mareno Sivertsen, Kristiansund, Norway.

## Degree of Bachelor of Science in General Industrial Engineering

C. Mark Young, Coleraine, Minn.

## Degree of Bachelor of Science in Geological Engineering

Robert Myer Harris, Barrie, Ontario, Canada.

## Degree of Bachelor of Science in Mechanical Engineering

Jerome Errol Balke, Grafton.

## Degree of Bachelor of Science in Mining Engineering

James Donovan Bohn, Carson and James Wilson Talus, Grand Forks.

## COLLEGE OF BUSINESS AND PUBLIC ADMINISTRATION

Degree of Bachelor of Science in Business Administration

Philip Conrad Barth, Bismarck; Clinton Charles McDougal, Red Lake Falls, Minn.; Roger Allin Bond II, Bottineau; Donald Gene Norland, Underwood; Rodney Palmer Burwell, Grand Forks; Earl Richard Pede, Grand Forks; Morris William Calahan, Moorhead, Minn.; Richard Keith Petersen, Makoti; Earl Egbert Felland, Turtle Lake; Neil C. Rowe, Grand Forks; Samuel Oliver Fox, Grand Forks; Victor Walter Stepanuk, Winnipeg, Ontario, Canada; Cyril I. Gerszewski, Oslo, Minn.; Joe Henry Stoltman, Minto; James Arnold Hanson, Fargo; Richard Peter Ulrich, Harvey; James Gordon Hulligan, Bismarck; Richard Leroy Volk, Rugby; Sandra Lea Jacoby, Grand Forks;

Robert Lee Wagner, Strasburg; Douglas Gene Johnson, Buxton; Donald Gene Walz, Bismarck; Howard Melvin Knutson, Devils Lake; George A. Westin, Grand Forks; Bruce Carl Lindell, Crookston,

Minn.; John Joseph Winderlin, Hettinger.

## COLLEGE OF NURSING

Degree of Bachelor of Science in Nursing

Janice Arlene Wolf, Park River.

## GRADUATE SCHOOL

Degree of Master of Arts

Barry Myles Bummer, Crosby; Clifford Silas Knutson, Norma; James Thomas Ertresvaag, Bottineau; Margaret Elizabeth Larsen, Crookston, Minn.; Orley Iver Holtan, Billings, Montana; Richard Lew Mays, Sioux Rapids, Iowa; Ralph James Kane, Oakes; Alice Putman, Egeland; Robert Eddie Kjelstrup, Minot; Father Raphael R. Stovik, Richardson and Delilah Mickelson Thornton, New York City, N. Y.

## Degree of Master of Science

Sister M. Benedict Beeher, Minot; Neil Bernard McMurrin, Lancaster, Calif.; Melvin Dale Beers, Bismarck; Father Alcuin Muggli, Richardson; Edgar Bolinger, Ellendale; Gordon Dalmar Oberg, Cheyenne, Wyoming; Edward Knight Bowdon, Manhattan, Kansas; Edward James O'Brien, Webster;

Thomas James Cebulla, Duluth, Minn.; Benjamin Ostfield, Grand Forks;

Bernice Joan Pavek, Fargo; John D. L. Droege, Granite City, Ill.; Robert W. Peterson, Fargo; Tofen Dublanko, Edmonton, Alberta, Canada; Donald Arthur Porter, Saskatoon, Saskatchewan, Canada; Floyd Ernest Erickson, Holt, Minn.; John Michael Poston, Kalispell, Montana; Raymond Curtis Flaa, Wahpeton and John H. Reiter, Grand Forks;

Darold Jonathon Frantsvog, Butte; Wayne Harvey Rice, Doyon; Clinton John Frazee, Watford City; Mahmoud Rashad Rifi, Tripoli, Lebanon; Dona Fay Frost, Jerseyville, Ill.; Alvin Eugene Rudisill, Kennedy, Minn.; Quentin Neil Gerber, Peever, S. D.; Donald George Schulte, Dickey; Leo B. Glatt, Napoleon; Paul Bernard Simons, Bismarck;

Allen M. Hanson, Grand Forks; Robert W. Strand, Crookston, Minn.; Rodney Clark Hermes, Glen Ullin; Orlo Allen Sundre, Fargo; William James Karaim, St. Thomas; Gerald Lester Timm, Winaona, Minn.; John Frederick Keller, Goodrich; Vier Walter Wood, Hopkins, Minn.; Clifford Sylvester Lozinski, Daphin, Manitoba, Canada, Lawrence Francis Ziegler, Devils Lake.

## Degree of Master of Education

Clayton J. Ahrlin, Galesburg; Richard Bernard Hageman, St. Paul, Minn.; Erling Eugene Anderson, Wahpeton; John Glenn Hook, Oceanside, Calif.; Ardyth Ann Archer, Jamestown; Helmer George Johnson, Kennedy; Neil Omar Arntzen, Havana; Orall Benneth Johnson, Grand Forks; Caleb O. Beckstrand, Bemidji, Minn.; Richard Darrell Johnston, Lansford;

Minnie Marion Barry Berg, Dahlen; Vernon Alvin Kaufert, Ogilvie, Minn.; Charles Warren Bispala, Hibbing, Minn.; Ray E. Kerrigan, Halstad, Minn.; Ava Arlene Blake, Underwood; Robert Eugene King, Turtle Lake; Sidney William Blake-way, Moorhead, Minn.; Kenneth Frederick Knoke, Grand Forks; Carl Vernon Bloomquist, Minot; Esther Douglas Knutson, Buxton; Lawrence J. Boldt, Rocklake and Wayne Curtis Kobberdahl, Grand Forks;

George Dale Brooks, Walhalla; Robert Dale Krogh, Columbus; Thomas Theodore Butson, Baudette, Minn.; Critchfield Krug, Garrison; Arden Brooks Collins, Madera, Calif.; Lyle Walter Krueger, Fargo; Vernon Alta Cover, Belcourt; Michael P. Kuntz, Leeds; Richard L. Davison, Lawton; DeWayne J. Kurpius, Staples, Minn.; Patrick J. Delmore, Cando;

Perry Eugene Larson, Redlake, Minn.; Durwood Lynton Emerson, Grand Forks; Kenneth R. Linstrom, Grand Forks; Michael Lawrence Gaddie, East Grand Forks, Minn.; Warren K. Lundquist, Aitkin, Minn.; John H. Gohrick, Sherwood; Ronald W. Luttschwager, Grace City; Norman H. Gregory, Pierre, S. D.; Neil Ames Mattson, More, Minn.; Sarah Garrett Gruwell, Grand Forks and Paul A. Wauboy, S. D.;

Edwin Harley Mellstrom, Salol, Minn.; Frederick Joseph Polka, Williston; Delos Clinton Metcalf, Jr., Baynesville, Minn.; Dolph John Regelsky, Dallas, Texas; Harold D. Michelson, Martin; Dorothy Larson Richter, Valley City; Ervin J. Miller, Lehr; Arthur Walter Schuschke, Fertile, Minn.;

James Allen Mittun, Fosston, Minn.; Morris Shapiro, Grand Forks; Joseph

Francis Moore, Drake; John Marion Sims, Garden City, Kansas; Sue Zanna Morris, Grand Forks; Paul John Steen, Jr., Hillsboro; Lowell Allan Mortruede, Greenbush, Minn.; Claudius Carleton Sundell, Hankinson; Orville A. Myhr, Williston; Juel Chester Thompson, Lake Park, Minn.; Donald Alfred Nelson, Kensington, Minn.;

Daniel Overton Turner, Starkweather; Anne Elizabeth Nicholson, Elbow Lake, Minn.; George M. Wagner, Red Lake Falls, Minn.; Willard Francis Olson, Pekin; Harlan W. Wallum, Edinburg; Duane Curtis Orr, Long Prairie, Minn.; Lucille Irene Whitt, Minot; Howard Willard Paulsen, Longville, Minn.; Charles F. Wilz, Dickinson; Francis Leslie Pavek, Fargo; Joseph Harry Wrigley, Columbus.

Degree of Master of Science in Teaching  
Fred Elbert Acuff, Morganton, N. C.; Lyle J. Haugen, Pelican Rapids, Minn.; Pete John Brandt, Starkweather; Leslie Byron McKenzie, Hutchinson, Minn.; Donald Leonard Fick, Wilton, Wisc.; Max Walter Muralt, Litchville; Vern Sylvester Hagen Oakes, Lyle J. Haugen, Pelican Rapids, Minn., and Loren Velzie

Degree of Doctor of Education  
Clair Talmer Blikre, Stanley and Harald Dordal, Moorhead, Minn.

# Fritz Scholarships

(Continued from page 1)

as Ideal Fraternity Pledge during Greek Week activities at UND.

Miss Schmidt, a sophomore majoring in mathematics, was valedictorian of her high school class. At UND, she received a 2.79 of a possible 3.0 academic average for her first year. She is a member of the concert band; Orchesis, modern dance group; American Chemical Society; religious group choir and the faculty-student Mothers' Day committee.

# Burdick to Address Language Institute

North Dakota's senator - elect, Quentin Burdick, will address the graduation exercises of the Summer Foreign Language Institute at the University Friday, August 5, at 10:15 a.m. in Room 300, Merrifield Hall, according to Norman B. Levin, director of the institute.

Burdick will speak to the graduating group and distribute the certificates. Participants in this institute have spent eight weeks of intensive study in either the French or German language, under a grant for language development provided by the National Defense Education Act, Levin said.

# Staff:

## THE DAKOTA STUDENT

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# Old Time Stone Writing Press Now Serves Cause of Modern Art

By LOIS REISER

A "prehistoric" lithographic press is in use today, right here in Grand Forks. But, don't look for it in one of the city's print shops; this reporter found it installed in the home of Prof. Robert Nelson, head of the University Art Department.

At first glance, the house of Robert Nelson looks as conventional as the name of its resident sounds. However, "conventional" is not the word for either, as a closer look at both reveals.

On entering his home, one is greeted by various works of art on a long low table, on shelves, on the floor, and on the walls. A partition consisting of rectangular white panels set at various angles, divides the living room from the kitchen. There are also three tanks of tropical fish, a rubber tree plant that stretches from floor to ceiling, and a large book rack. The way in which these objects convert a plain room into one big conversation piece is no less than stunning.

In Mr. Nelson's basement studio, he has an old Fuchs-Lang lithographic press, one of the few in use anywhere. He bought the 1,500 pound press in Canada, brought it here in pieces, and then assembled and re-conditioned it.

The word lithograph means, literally, stonewriting. The process was developed by a German playwright, Aloys Senefelder, in 1796, in an attempt to more easily and cheaply reproduce his plays. Today the idea has been modernized and is called "photo-offset." Metal plates have been substituted for the original stone surface.

The basic principle on which all lithographic work (old or modern) is that oil and water will not mix.

On Mr. Nelson's press, this is accomplished by grease drawings which are made on Bavarian limestone from Germany. They are then treated with various acids and gums, inked and printed.

The process is not as simple as it sounds. Mr. Nelson said that it may take him three hours to make only 10 prints, even after the stone has been prepared.

Mr. Nelson said that this press

can be used for many things, but that it is particularly valuable for reproducing art. This is because of the wide range of greys possible, and the great detail with which it reproduces prints.

Although he received his formal education at the Art Institute in Chicago, Mr. Nelson said that his education didn't end there.

"Education was the catalyst, but learning came after school," he said.

Mr. Nelson spent a year and a half in Europe. This partially explains his beard.

"When I was in Spain, it was more convenient at the time not to be American," he said. "The dictatorship was opposed to Americans so I posed as an European. The beard came in handy. When I came back to the United States, it had become sort of a habit."

When asked what particular type of art work he most preferred, he replied that an artist can see sensitivity in any artistic work. He illustrated this by pointing out that in his own collection he has a Picasso plate, Eskimo sculptures, Japanese jade carvings, Chinese ivories, German and French prints, and modern works.

As an art teacher he said, "My most gratifying experience is to work in the sense of culminating maturity."

He is especially interested in instructing children in art. Soon after his arrival here from the University of Manitoba, he established a children's art school. The group began three years ago with 50 children enrolled. Now it has expanded to about 175.

Mr. Nelson has been attempting to place more stress on art in this region. "We are at the lip of a great potential in this north central area," he said.

## Seven Visit Canada

Seven participants in the Summer Foreign Language Institute at the University of North Dakota visited Winnipeg and St. Boniface, Canada, to observe historical and cultural points of interest.

Members participating were Mr. and Mrs. George Flasschoen, Clearwater, Neb.; Mr. and Mrs. Delano Finch, Long Prairie, Minn.; Robert Temple, Moorhead, Minn.; Peter Niesner, exchange instructor from Germany, and Rene Armand, exchange instructor from France.

A movie taken during the trip is being arranged with French commentary to be shown to other participants in the institute.



On the wall is one of the prints made by Prof. Nelson on this lithographic press.

## R. G. Severson Succeeds E. D. Coon as UND Chemistry Department Chairman

Dr. Roland G. Severson, professor of chemistry, has been named chairman of the chemistry department at the University of North Dakota, to succeed Dr. E. D. Coon, who retired recently. The announcement was issued by Dr. George W. Starcher, UND president.

Severson, who came to UND as an instructor in chemistry in 1950, lives at 705 Chestnut St., with his wife, Matilda; three daughters, Ruth, 14, Mary, 9, and Sarah, 2; and son, Roland Jr., 12.

Severson came to UND directly from Purdue University, Lafayette, Ind., where he received his Ph.D.

degree in chemistry in 1950. Severson, who also got his master's degree at Purdue, had been a graduate assistant, research fellow and instructor in chemistry while a student. A native of Malta, Mont., he received a B.S. degree in chemistry from Montana State College, Bozeman.

George A. Abbott, Grand Forks, headed the UND chemistry department from 1910 to 1947, when he retired. His successor was Grant Smith, who was chairman of the department until 1950, when L. E. Miller took over. Richard Holmes served as chairman of the department from 1952 to 1957 when Dr. Coon was named head.

Severson has been awarded \$1,800 by Research Corp. and \$14,200 by the National Science Foundation for basic research in Organosilicon chemistry. Severson's research in this field has been reported several times by Chemical and Engineering News, a trade magazine devoted to timely developments in the field.

He estimates that a B-47 airplane contains about \$50,000 of organosilicon products in the form of special-purpose rubbers, plastics, etc. The purpose of this research is to create products which retain both the properties of an organic material, like oil, and introduce the stable properties of sand.

Severson has published six major

technical papers in chemistry journals dealing with these Organosilicon compounds.

Since coming to UND in 1950, Severson has served on a number of UND faculty committees, including curriculum, chemistry building, establishment of a Ph.D. program in chemistry, registration procedures, student relations, faculty promotion and faculty resources.

He has been adviser to the Student Affiliates of the American Chemical Society, secretary of the Red River Valley Section of the Society and a member of the National Council of the ACS. He has served as secretary, vice president and president of the North Dakota chapter of Sigma Xi, honorary science fraternity.



Severson

## Medical Students Get Fellowships

Eighteen medical students from the School of Medicine at the University of North Dakota are doing summer research projects under \$600 fellowships.

The funds for the grants are supported by the National Institutes of Health, National Science Foundation, Lederle Laboratories and the Tobacco Industry, according to A. F. Arnason, assistant dean of the medical school.

Participating in the program this summer are George Sarosi, Richard Stone, Ronald Bergom, Wesley Sondreal, Walter Miller, Stephen Dippe, and Gottfried Baumann, all of Grand Forks; Jerome Kwako and David Swenson, both of Bismarck; David Monson, Climax, Minn.; Francis Manning, Minot; Bennie Van Deest, Jamestown; Donald Person and William Henry, both of Fargo; Donald Hegge and Robert Jacobson, both of Elgin; Robert Brown, Gildford, Mont.; and Dennis Nelson, Sheyenne.

The program is designed to give a number of students a chance to become acquainted with scientific methods, solve problems, interpret results, and provide an opportunity for each student to decide if he would be interested in making a career in research, Arnason said.

## UND Graduate Named Director Of Student Union

A. Craig Millar, a native of Devils Lake who received his master's degree from the University of North Dakota in 1959, has been named director of the Memorial Student Union and coordinator of student activities, it was announced by UND President Dr. George W. Starcher.

Millar, who also received his B.S. degree from UND, will assume his new duties about August 1. This past year he has taught social studies at Lompoc, Calif., high school.

In his new position, Millar will coordinate all social, educational and recreational programs of the Student Union.

He will maintain a university calendar of events, coordinating athletic, academic and social calendars, and information files on all student organizations and activities except the social fraternities and sororities.

Millar graduated from Webster high school and served three years in the Army before coming to UND. He was president of Alpha Tau Omega social fraternity and winner of the fraternity's provincial leadership contest.

He was president of his dormitory and a member of Phi Delta Kappa, honorary fraternity in education, and the Student Education Association.

His wife is the former Maxine Allen, King City, Calif., who also is a UND graduate. They have one daughter, Lee Ann.

Both were awarded assistantships for graduate study at UND. Mrs. Millar taught women's physical education classes, and he was assistant to the dean of the University College.

Millar is the son of Mrs. Andrew C. Millar, Devils Lake.

### NOTICE

The University Press will be closed for vacations, August 8 through August 21, inclusive.



Millar

## Coincidence Aids Young Victim Of Rare Disease

By ARLENE NESHEIM

Providential coincidence has been important in the life of 3-year-old Brenda Cottle, who is suffering from hypo plastic anemia.

Her parents, Mr. and Mrs. Morris O. Cottle, were working among the Ivatan Filipino people on one of the northern islands in the Philippines when it was discovered that Brenda was unable to manufacture red blood cells. This meant that the Cottles would have to leave their work in the island because of its inaccessibility.

At this time, by coincidence, the Filipino government moved an entire village of Ivatan people down to the southern Philippine island of Mindinao so that they could homestead there.

This new village is four hours away from an American mission clinic so that Brenda was close to medical care in case of emergency, and her parents could continue their language work.

Dr. L. Stansky, an Austrian Jew who was forced out of Austria by the Communists, had come to Manila, by coincidence, only one year before Brenda's birth. Having taken Brenda to several Manila doctors without success in identifying the disease, the Cottles were referred to Dr. Stansky.

Dr. Stansky, the first person to

### 3 States Represented At Hockey Clinic

Fifty-six young hopefuls are at the University winter sports arena twice daily for the second annual UND hockey clinic that opened with registration Sunday.

They come from three states; North Dakota, Minnesota and Colorado.

Faculty members are Barry Thorndycraft, UND hockey coach; Serge Gambucci, Grand Forks Central high school; Walt Pederson, Devils Lake; Richard Bouchard, UND freshman coach; Bob Peters, East Grand Forks Central, and Manny Bertsch, city park board hockey supervisor.

The clinic will conclude August 13.

identify this rare form of anemia, diagnosed her condition within an hour and put Brenda on medication that brought her back to health. Brenda lived with the aid of blood transfusions her first year, and then cortisone was discovered and administered.

Mrs. Cottle, born in Spicer, Minn., and Mr. Cottle, a native of Norfolk, Va., met in the jungle training camp near Guatemala in southern

Mexico. They have recently completed a five-year missionary term in the Pacific area.

While the Cottles were returning to the United States, Brenda began to manufacture a part of her own blood cells, so the medication could be greatly reduced. Her parents have been told she is the first person on record to do this, as all others have had to rely completely on cortisone.



These children, whose birthplaces are Mexico or the Philippines, find a common interest while playing on the University of North Dakota campus. Left to right are, front, Terry and Brenda Cottle and Carrie Wolfenden, and, back row, Sharon Daly, Jean Crawford, Steve Wolfenden, who lost one lens of his sunglasses, and Dave Bradley. Their parents are at UND for the Summer Institute of Linguistics.



Dressed in native costumes of countries in which their parents do linguistic work are, left to right, Betty Bligh, Cathy Moser, Naomi Dougherty and Ruth Cowan, Mexico, and Esther Adams, Viet Nam. The volley ball held by Betty is strictly Grand Forks.



## Teachers to Show Research Projects Friday Afternoon

Participants in a research program for high school and college teachers will conclude their eight-week summer study at the University of North Dakota with a presentation of research projects at a seminar Friday at 1:30 p.m. in Room 1 of the Medical Science building.

Seven North Dakota and Minnesota high school teachers and one Iowa college instructor are taking part in the program, which is under the sponsorship of the National Science Foundation.

The participants will be awarded certificates at the seminar for completing the program, according to Dr. Francis A. Jacobs, director of the program and associate professor of biochemistry.

Participants who will present research projects and their supervising instructors are:

James C. Petterson of Littlefork, Minn., under Dr. Walter J. Bo, associate professor of anatomy; Ernie F. Kleingartner of Lisbon under Dr. Theodore H. Snook, professor of anatomy; Thomas J. Pacholl of St. Paul, Minn., under Dr. Jacobs; Robert Hullinger of Grand Forks under Dr. Donald E. Severson, professor of chemical engineering;

Dwight J. Holter of Westhope under Dr. Edward J. O'Reilly, professor of chemistry; Oren E. Johnson of Buffalo, Minn., under Dr. Roland G. Severson, professor of chemistry; Jack Sholund of Hibbing, Minn., under Dr. Earl N. Mitchell, assistant professor of physics; Deloris F. Palmquist of Morningside College, Sioux City, Iowa, under Dr. Helge E. Ederstrom, professor of physiology and pharmacology.

The purpose of the program is to offer research facilities in an academic atmosphere under experienced and competent scientists to acquaint teachers with the philosophy, methods and instrumentation of scientific research, Dr. Jacobs said.

### MEETING SCHEDULED

The North Dakota organizational meeting of the National Rehabilitation Association will be held Friday and Saturday in the Student Union.

## Business Honorary Admits 12 Members

The University of North Dakota chapter of Pi Omega Pi, national business education honorary, initiated 12 members at the home of Dr. John L. Rowe, chapter adviser and chairman of the business education department at UND.

New members are Sister M. Benedict Beekler, Sacred Heart Convent in Minot; Hollis T. Bjertness, Mayville; Lowell O. Booflat and Donald C. Swedmark, both of Bemidji, Minn.; Dona F. Frost, Jerseyville, Ill.; Wendell James Johnson, Golvick, Minn. Arthur L. Ness, Holt, Minn.; Edward O'Brien, Devils Lake; Noel G. Powell, Powers Lake; Martha Roberts, Humboldt, Minn.; Raphael R. Stovik, Richardton, and Michael Safratowich, Hebron.

Members are selected from those enrolled in the business teacher education program. Each must have a superior scholarship in business and education subjects.

## 6 Mathematicians Work on Doctorals

Six faculty members from the mathematics department of the University of North Dakota will be working on doctoral degrees in mathematics when school opens in September, according to Philip A. Rognlie, associate professor of mathematics.

Lawrence J. Lardy has accepted a graduate teaching assistantship at the University of Minnesota. James S. Rue and Thomas J. Robinson will be part-time instructors in mathematics at Iowa State University, Ames. Gene A. Kemper, H. Blair Burner and Dale M. Rognlie will be employed by Boeing Aircraft Co. in the Seattle, Wash., area, and will be studying at the University of Washington.

### YWCA WANTS INSTRUCTORS

Two jobs for women are open at the Grand Forks Young Women's Christian Association, according to Monica Larivee, health education director. Needed are a swimming instructor and a dance instructor.

## Research Bureau To Study Future Of Garrison Unit

The board of directors of the Garrison Diversion Conservancy District has commissioned the Bureau of Business and Economic Research at the University of North Dakota to make an economic study of the Garrison Diversion Unit, according to Dr. W. E. Koenker, director of the bureau.

Purpose of the study will be an evaluation of the long-range, indirect benefits of the proposed program for diverting water from the Garrison Reservoir to points all over the area.

An important part of these indirect benefits to business enterprises in the proposed area comes in the form of stimulated business activity, according to Koenker, who is chairman of the economics department at UND.

Additional benefits such as recreational activities, water supplies for industrial development in the area, and increased income stability are possible with such a program, Koenker said.

Analysis of the indirect benefits will be submitted to the directors of the conservancy district February 1, 1961. Data from the study will be used in preparing testimony before Committees of the U. S. Congress concerning the economic feasibility of the diversion program.

## Linguistics Head Speaks in Texas

Dr. Richard S. Pittman, director of the Summer Institute of Linguistics at the University of North Dakota, presented a paper before the annual meeting of the Linguistic Society of America at the University of Texas July 29.

His paper is entitled "Testing for Grammatical Contrasts" and its purpose is to contribute to the knowledge of the procedures for testing grammatical contrasts, according to Dr. Pittman. He has presented papers at six previous meetings of the society, the principal organization in the country for the study of linguistics.