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Commencement Climaxes Summer Session

The Dakota Student

SUMMER SESSION

THURSDAY, AUGUST 3, 1961

NUMBER 8

To Challenge Superior Student

4-Year Honors Program Established at University

A four-year honors work program has been established at the University of North Dakota with Donald M. Gillmor, associate professor of journalism, named coordinator, according to an announcement by Dr. George W. Starcher, University president.

The honors program will attempt to encourage, to challenge and to press the superior student to the outer limits of his abilities, Gillmor said. It will be centered in the colleges of Science, Literature and Arts, Education, and Business and Public Administration. Details of the program have not yet been fully worked out.

In announcing the new program, Starcher said: "Expanding the University's honors program is very important at this time when all universities need to find ways to insure opportunities for maximum achievement by our most talented students. I'm sure that all the members of our faculty and administration will cooperate with Mr. Gillmor and the honors work committee in making the program at the University of North Dakota one of the most outstanding in the nation."

"Goal of the program is penetration in depth and richness in content through the imaginative use of the University's total resources," Gillmor said. It will employ such teaching methods as independent study programs, seminars and interdisciplinary colloquia, he said. The present senior honors program on

campus under the chairmanship of Dr. F. Y. St. Clair will be incorporated into the four-year program, he said.

The program will be voluntary and admission will be by invitation, Gillmor said. Selection will be based on the American College Testing battery and other tests given by the UND counseling center and the psychology department. An honors committee will be named to aid Gillmor in developing the program.

Preliminary plans call for about
(Continued on Page 6)



Gillmor

Stanley Girl Gets 'State' Scholarship

Sharon M. Eidem, a 1961 high school graduate of Stanley, N. D., has been awarded this year's \$155 Girls State scholarship at the University of North Dakota.

The award is made each year to an outstanding high school student who has also been a citizen of Girls State, according to Dean D. J. Robertson, chairman of the UND scholarship committee.

Miss Eidem is the daughter of Mr. and Mrs. Reidell Eidem of Stanley.

She was a cheerleader, was active in band and chorus, was a member of Student Council and Future Homemakers of America, and was on the yearbook staff. She also participated in the UND-sponsored Know Your State contest.



Miss Eidem

President Starcher To Award Degrees Saturday Morning

Commencement exercises at 10 a.m. Saturday, August 5, on the campus mall will conclude the 1961 summer session at the University of North Dakota.

Candidates for degrees and faculty members will assemble at 9:30 a.m. near Merrifield Hall and at 9:45 will march to the site of the commencement between the old and the new libraries. In case of rain, commencement will be in the University fieldhouse.

Dr. Harvey M. Rice, president of Macalester College in St. Paul, will deliver the commencement address, "Horizons Unlimited." The summer session band will play the processional and recessional. Dr. H. Carleton Green, associate professor of religion at Wesley College, will pronounce the invocation and benediction.

Dr. George W. Starcher, University president, will award the degrees and preside at the graduation exercises. An honorary degree will be presented by Wesley College to Dr. Jack J. Early, president of Dakota Wesleyan University, Mitchell, S.D. The honorary doctor of divinity degree will be presented to Dr. Phillips S. Moulton, Wesley College president.

Fifteen juniors have been selected as Grey Gowns to serve as ushers for commencement. They were selected from juniors attending summer session classes at UND. Selection was based chiefly on scholarship with leadership, participation in campus activities and character also being considered.

They are Hestor Crabtree, Ellendale; Deann Eliason, Karen Lehr, Maxine Rasmussen, Annette Schley and Mary Watts, all of Grand Forks; Neil Erickson, Maddock; Rolland Evans, Hillsboro; Gary Gran, Erskine, Minn.; Gene Rose, Red Lake Falls, Minn.; Bonita Schmidt, Riverdale; Gayle Segar and Lawrence Segar, Hibbing, Minn.; Ardelle Stenson, Harvey, and Richard Swenson, Angus, Minn.

The list of 204 candidates for de-
(Continued on Page 2)

Commencement

(Continued from Page 1)

degrees is tentative and subject to satisfactory completion of summer session work, according to Miss Ruby M. McKenzie, registrar.

That figure would bring the academic year's total graduates to 871, which includes 150 who received their degrees in February and 517 June graduates. Last year's total for the academic year was 886 while the summer session figure was 216.

The University, which annually graduates more students than any other institution of higher education in North Dakota, is the only one to hold three commencements a year.

The tentative list of candidates for degrees follows:

COLLEGE OF SCIENCE, LITERATURE, AND ARTS

Degree of Bachelor of Arts

Myrna Carol Anderson, Forman; Robert Herald, Crook, Williston; Sister M. Victorine Fenton, O.S.B., East Grand Forks, Minn.; Laurence Edward Grant, Hillsboro; George Seward Hallenbeck, Oak Park, Ill.; Benton James Larson, Grand Forks; Mary Lee, Minot; Rudolpho Beltram, Leon Guerrero, Agana, Guam; Frederick Carl Lindemann, Minot; Kathryn Raejean Meyer, Minnor; Reaume C. Mulry, Eldred; Clifford John Sowle, Montevideo, Minn.

Degree of Bachelor of Science

Gerald Louis O'Connor, St. Thomas.

Degree of Bachelor of Philosophy

Blayne Farrell Helgeson, Hankinson; Ronald Fredrick Johnson, Rolla; Robert Trescott Sage, Grand Forks; John Paul Schreiner, Bottineau; Michael Allan Tanous, Hettinger and Howard Neal Wentz, Grand Forks.

Degree of Bachelor of Science in Geology
Rodney Mansfield Feldmann, Billings, Mont.

Degree of Bachelor of Science in Medical Technology

Malva F. Bach, Devils Lake and Carole Marie Pramhus, Cooperstown.

COLLEGE OF EDUCATION

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

Donald Arne Berntsen, Ray; Bud Bjorgulv Staal Bjornaraa, Grand Forks; Allott Dale Bradshaw, Winnipeg, Man., Canada; Clarence James Christenson, Grand Forks; Donovan Morris Flaagan, Tolna; Kathleen Hanna Fode, Lisbon; Jay Robert Foley, Rolla; Larry Dale Gausen, Thief River Falls, Minn.; Elenore Elizabeth Harnit, Grand Forks and Jeannette Ann Havig, Aberdeen, S. D.

Irene Janette Howitz, Rock Lake; David Alan Kraft, Ryder; Raymond Alexander Kuran, Grand Forks; Marilee Therese Larson, Grenora; Harland Eugene Lee, Grand Forks; Ruth Neilson Midboe, Grand Forks; William Patrick O'Brien, Webster; Thomas John O'Connell, Grand Forks; Doris Evelyn Onstad, Clearbrook, Minn.; Niomi Rohn Phillips, Park River; Arnold Verle Ralston, East Grand Forks, Minn.; Shirley Benson Smith, Larimore; Donald Truman Sorum, Grand Forks; Nan Spivey Spalding, Grand Forks; Viola Bernice Suby, Grand Forks; Kay Frances Sunderland, Milton; Gerald Albert Walford, Sudbury, Ont., Canada; Judith Ann Wallace, Grand Forks and Neil Marion Wilson, Grand Forks.

COLLEGE OF ENGINEERING Degree of Bachelor of Science in Chemical Engineering

David Allen Veeder, Watford City.

Degree of Bachelor of Science in Electrical Engineering

Ordean Sherman Anderson, Grand Forks; Phillip Blaine Hannis, Rugby; George Arthur Martin, Grand Forks and Guy Fred Woods, Grand Forks.

Degree of Bachelor of Science in General Industrial Engineering

Garfield Rae Beckstead, Emerson, Man., Canada; Marvin Floyd Dietrich, Grand Forks.

Degree of Bachelor of Science in Mechanical Engineering

Jerold Orlo Dalton, Grand Forks; Gary Lee Johannesson, Gardar; Dean Allen Quick, Fosston, Minn., and Harold Franklin Rosscup, Rolla.

Degree of Bachelor of Science in Mining Engineering

Don Arthur Lindbo, Rolla.

COLLEGE OF BUSINESS AND PUBLIC ADMINISTRATION

Degree of Bachelor of Science in Business Administration

Gordon Loyal Bartholomay, Fargo; Roy Albert Bohlman, Thompson; George Ervin Bork, Baudette, Minn.; Paul Gene Brewer, Minneapolis, Minn.; Donald Judson Cooke, Fargo; Robert Samuel Dunbar, Souris; Peter James Gazeley, Red Deer, Alta., Canada;

Clifford Curtis Grosz, Anamoose; Donald Albert Gunnarson, Lake Bronson, Minn.; Darrell Clark Houser, Rugby; David Charles Loken, Fergus Falls, Minn.; Clair Wilhelm Maurstad, Drayton; A. Wayne Melby, Oakes; David Richard Molin, Brainerd, Minn.; Vearl Virgil Nelson, Oklee, Minn.;

Fredrick Delano Renville, Walhalla; Thomas Edward Rutten, Devils Lake; Lawrence Thompson Sym, Bismarck; Michael Jack Trent, Cass Lake, Minn.; Dale Gordon Vetter, Washburn; Edwin Dean Volk, Bismarck; Durand Marlin Ward, Fordville, and Rodney Wayne Wilson, Bagley, Minn.

SCHOOL OF LAW

Degree of Bachelor of Laws

Chester Arthur Yon, Bathgate.

GRADUATE SCHOOL

Degree of Master of Arts

Donald Bruce Beard, Beach; Shirley Nelson Beith, Bottineau; Glen Alan Gransberg, Grand Forks; Benjamin Daniel Hahn, Casselton; Robert Ellsworth Johnson, Grand Forks; Bruce Llewellyn Larson, Fargo; Gerald Miles Skogley, Grand Forks and Duane Luther Younggren, Northcote, Minn.

Degree of Master of Science

Quentin Duaine Appert, Hazelton; Robert James Bache, Red Lake Falls, Minn.; David Calvin Boknecht, Burt; Floyd Boschee, Rugby; James Vernon Cross, Minneapolis, Minn.; Conrad Paul Dietz, Sentinel Butte; Marvin Ehley, Grand Forks; Leo Bernard Glatt, Napoleon; Eugene W. Goertzen, Salem, Oregon; Dale David Gust, Kramer;

Nick Hanten, Jr., White Lake, S. D.; Charles Owen Heinzel, Grand Forks; John Edward Kenney, Bismarck; Andris Kramins, Grand Forks; Willard Dale Larson, Adams; Robert Richard Lauer, Hibbing, Minn.; Noel Whitney Olson, Virginia, Minn.; James Clark Pettersen, Grand Forks; Monte LeRoy Phillips, Valley City;

William V. Rausch, Cold Spring, Minn.; William James Ridley, Grand Forks; Carol Marie Roser, Lima, Ohio; Clair Mathias Roth, Grand Forks; Wilbert Arnold Sandstrom, Duluth, Minn.; Varadarajan Vishwanath, Bombay, India; Alolf H. Walser, Grand Forks; Joyce Joan Yagla, Grand Forks and Rena S. C. Yang, St. Paul, Minn.

Degree of Master of Education

Selmer Olaf Aalgaard, Citrus Heights, Calif.; Paul John Aamot, Benson, Minn.; Norman Anderson, East Grand Forks, Minn.; Ray Baldwin Arnason, Grand Forks; Carol M. Awsumb, Velva; Louis Peter Barle, Gilbert, Minn.; Merrill Berg, Crosby; Roger Joseph Bloomquist, Sebeka,

Minn.; Larry Michael Brady, Mayville; Ralph Charles Braun, Osseo, Minn.; Richard Melford Brenckman, Grand Forks; Robert Daniel Brown, Wichita Falls, Texas; Leonard H. Bubach, Bergen and Eugene E. Burns, Epping.

Leslie Ervin Christian, Grand Forks; Lester Eugene Christianson, East Grand Forks, Minn.; Peggie Joan Conley, Greenville, S. C.; Gladys E. Eagle, East Grand Forks, Minn.; Delvin Graeme Easton, Rugby; Richard Gene Eberly, Larimore; Wallace Harry Eckmann, Minot; Nellie Comstock Evans, Edmore;

Aubrey Wayne Fillbrandt, Reynolds; Norman G. Franchere, Cass Lake, Minn.; Kenneth Orien Fugleberg, Grand Forks; Coy Gibson, Stonewall, Okla.; Elton William Gray, Jamestown; John Gilbert Greenquist, Isle, Minn.; Malcolm Orlando Hanson, McClusky; Gordon Elmer Hard, Chisago City, Minn.; Robert A. Hedstrom, Hancock, Minn.; Donald Herbel, Grand Forks; Curtis Everil Hjeltness, Eureka, Calif.; Roy John Hokkanen, Oklee, Minn.; Robert Baron Houska, Grand Forks; James P. Hunt, Crookston, Minn.;

Gilbert Charles Jensen, Edinburg; Thomas John Klinkhammer, Grand Forks; Everett Curtis Knudsvig, Buxton; Eugene Otto Kohlman, Minot; Alton Noel Koppang, Portland; Albert Bede Kuntz, Dickinson and Charles Orin Larson, Oslo, Minn.

Roger Allan Lehne, Mahnommen, Minn.; Gail Gordon Lennon, Grand Forks; Willys D. Lindberg, Grand Forks; William H. McDowall, Bismarck; Esther Bernice McKinnon, Warren, Minn.; Henry Duane McLaughlin, Burlington; Dale B. Nathan, Alexander; Arthur Leonard Ness, Clifton, Ariz.; Mary B. Nichol, Minot; Crystal Clara Nienas, Thompson; Frank L. Oamek, Neche; Louis Henry Oldenburg, Dickinson;

Carl A. Peterson, Manvel; Leonard Rohde Potter, Rogers; Patricia Jean Purath, Cedar Rapids, Iowa; Sigurd Francis Randa, Fertile, Minn.; John Thomas Reisenauer, Mandan; John Peter Scheveck, Argyle, Minn.; Myron O. Schmidt, Harvey; Victor D. Sletten, Churchs Ferry; Donald Lyle Soli, Garrison; Frederick Charles Stephens, Grand Forks; Calvin Grant Stoller, Grand Forks; Glenn LeRoy Swenson, Bismarck;

Clark Duane Tufte, Grand Forks; Ervin Ulland, Sharon; Henrik Voldal, Grand Forks; Albert B. Wabaunsee, Rosebud, S. D.; George R. Weisz, Grand Forks; Alan Edward Wilwand, Pembina; Herbert F. Wolff, Nevis, Minn.; and John Allen Yonker, Bismarck.

Degree of Master of Science Teaching

Cyril Stanley Erpelding, Grand Forks and Donald Leroy Miller, Hillsboro.

Degree of Doctor of Education

Stanley E. Brooks, Grand Forks; Jimmie Dyke Morris, Grand Forks and Fred James Raniele, Keewatin, Minn.

Degree of Doctor of Philosophy

Max Hammer, Bronx, N. Y.

TO THE EDITOR:

When Lower Ft. Gary in Winnipeg gave way to progress the main gate became an authentic memorial.

Could the same idea be used to save an authentic part of Old Main? Perhaps the west entrance.

Summer Student

Staff:

THE DAKOTA STUDENT

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UND Biology Reserve Provides Valued and Varied Class Material

By SIG KRISTJANSON

Where the Forest river cut a deep gash in the Pembina escarpment the University of North Dakota biology department has established a sort of sanctuary.

The biology reserve consists of about 49 acres on each side of the river.

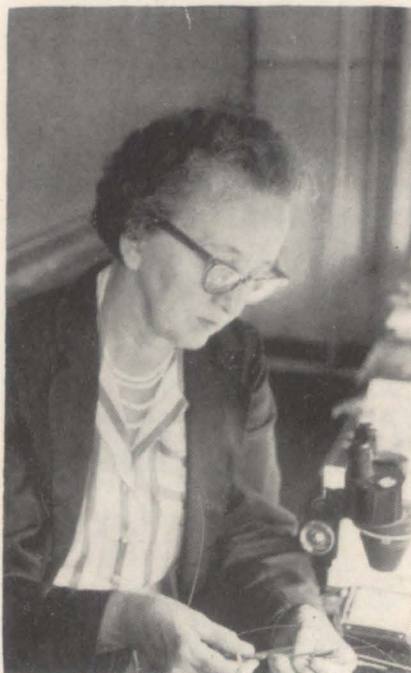
Rugged topography and the altitude differential make the area very useful for studying plant life.

Dr. Vera L. Facey, associate professor of biology, says that more than 350 flowering species of plants have been identified there.

"The area is so useful to us", said Dr. Facey, "because there are so many distinct habitat areas. On the high slopes grow birch and aspen. A cold spring and a cold bog produce liverworts and other plants unusual in this part of North Dakota."

"In addition the beaver swamp, the flood plain of the Forest river and the sand bars each provide study materials for the classes in botany."

Since the area is within 40 miles



Dr. Facey

of the University, Dr. Facey is able to bring live material for class use almost every day.

Graduate students in biology use

the area to study plants in their habitats. A group is now studying plant succession.

An old trail, abandoned in 1940, provides the break in continuity. The kinds of plants that have returned are compared with the plants growing in the undisturbed areas on either side of the trail.

The studies will give some indication as to the kind of plants that tend to return to an area no longer influenced by the activities of man.

Another study being carried out by Dr. Facey at the biology reserve consists of determining the extent to which plants are sensitive to minute climate changes.

"Minute differences in the location of the over-wintering vegetative bud in some species are caused by small differences in slope and exposure," said Dr. Facey.

"When the degree of sensitivity of the plants has been established the plants themselves may be used as indicators of micro-climate changes."

The biology area is a place of wild, rugged beauty. It is not open to the general public for the reason that the less it is disturbed by man the more useful it is for the scientific purposes of the biology department.

Research Seminar Scheduled This Afternoon

Seven high school teachers in research participation programs of the University of North Dakota medical school will present a research seminar in the medical building at 1:30 p.m. Thursday, August 3.

The teachers will discuss procedures and results of their research projects.

Three of the teachers have participated in research of the biochemistry department under a program directed by Dr. Francis Jacobs, associate professor of biochemistry. They are John Doerner, Dickinson; Mrs. Imogene Schultz, Fargo, and Thomas Pacholl, St. Paul.

Mrs. Jacqueline Worthington, Alvarado, Minn., and Kenneth McFadden, Fargo, assisted in research under a program directed by Dr. Theodore Snook in the anatomy department.

Mrs. Irene Eide, Williston, and Edwin House, Missoula, Mont., car-

ried on research under a program directed by Dr. Helge Ederstrom in the physiology-pharmacology department.

Doerner, an instructor at Dickinson Central high school, has participated in research on "Lipid Metabolism in the HeLa Cell" with Dr. W. E. Cornatzer, chairman of the biochemistry department.

Mrs. Schultz, Fargo Central high school, has studied a problem concerned with "Levels of Catacolamines Under Conditions of Stress" with Mrs. Mitza Luper, biochemistry instructor.

Pacholl, Washington high school in St. Paul, participated in research on "Amino Acid Absorption" with Dr. Jacobs.

Mrs. Worthington, biology and chemistry instructor at Alvarado public schools, worked with Dr. John J. Taylor, assistant professor of anatomy, on an electron microscope study of the mucous-produc-

ing cell in the small intestine of white rats.

Mrs. Worthington, biology and chemistry instructor at Alvarado public schools, worked with Dr. John J. Taylor, assistant professor of anatomy, on an electron microscope study of the mucous-producing cell in the small intestine of white rats.

McFadden, chemistry and biology instructor at Oak Grove Lutheran high school in Fargo, worked on a research project with Dr. Snook studying the filtration of blood through the spleen of laboratory rats.

Mrs. Eide, an instructor in the University extension division at Williston, did research on the metabolism of alcohol with Dr. Benjamin DeBoer, professor of physiology and pharmacology.

House, an instructor at Montana State University, Missoula, Mont., worked with Dr. William Nungesser, assistant professor of physiology and pharmacology, on kidney function studies.

1962 Summer Session Plans Announced by Dean Hamre

Preliminary plans for the 1962 summer session of the University of North Dakota have been completed, Dean C. J. Hamre, director of summer sessions announced this week.

Registration for the summer session will be held in the Fieldhouse on Monday, June 11, 1962 and will end with the summer session commencement scheduled for 10 o'clock on Saturday morning, August 4.

The general organization of the 1962 session will be like the present session and will include workshops, institutes, conferences and seminars as well as an academic program of scheduled courses. Workshops, conferences and seminars will be scheduled during the week before opening of summer session as well as during the summer session. Graduate or undergraduate credit will be available for the workshops and other short period sessions. The dates for these will be announced in the summer session bulletin next spring.

Courses will be offered for the eight-week period June 11 to August 4. Courses will also be offered for the first four week period June 11 to July 7, and for the second four week period July 9 to August 4.

Though plans for the courses to be offered for the four week sessions have been considered, only the courses tentatively planned for the eight week session have been announced.

Course No.	Subject	Credit
Accounting and Business Law		
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 Fin. Statements	2
500	Contemporary Readings in Accounting	2
501	Seminar in Acctg. Prob.	2-4
502	Seminar in Acctg. Prob.	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
Anatomy		
501	Advanced Anatomy	Arr.
503	Research in Anatomy	Arr.
Art		
103	Basic Design	2
412	Painting II	3
Ed. 460	Methods and Materials for Elem. School Teachers	3

Course No.	Subject	Credit
Bacteriology		
501	Viruses	3
502	Immunology	3
503	Medical Mycology	3
510	Special Problems in Bacteriology	2-6
Biochemistry		
504	Special Problems in Biochemistry	1-4
510	Research in Biochemistry	2-4
514	Biochemical Literature	1
Biology		
561K	Directed Studies in Vertebrate Zoology	4
164	General Biology	4
Business Education		
105	Beginning Shorthand	3
415	Improvement of Instruction in Typewriting	2
517	Improvement of Instruction in Shorthand & Transc.	2
520	Improvement of Instruction in Basic Business Subjects	2
522	Improvement of Instruction in Office Machines	2
524	Business Educ. in the Secondary School: Theories & Practices	2
525	Improvement of Instruction in Bookkeeping	2
526	Supervision of Bus. Educ.	2
435	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	2-3
540	Readings in Business Education Thesis	1-3
Chemistry		
106	General Chemistry	4
Civil Engineering		
202	Analytical Mechanics (Statics)	2
301	Mechanics of Materials	3
302	Fluid Mechanics	3
305	Analytical Mechanics (Dynamics)	3
Distributive Education		
564	Organization and Supervision of Distributive Education	2
565	Coordination Methods in Distributive Education	2
566	Problems in Distributive Education	1-3
Economics		
201	Principles of Economics	3
203	Elements of Economics	3
303	Money and Banking	3
305	Business Statistics	3
437	Foreign Trade & Exchange	3
499	Senior Problem	1
507	History of Economic Thought	3
517	Research in Economics	1-3
577	Readings in Economics	1-2
Education		
201	Introduction to Education	3
213	Educational Psychology	3
340	Prac. & Prof. Lab. Experience in Education	2
341	Gen. Math. Mat. Eval. & Guid. in Secondary Education	5
342	Methods & Mat. in Arithmetic	2
345	Methods & Mat. in Elementary Science & Social Studies	4
351	Child Psychology	3
353	Mod. Tchg. Pro. in the Elem. School, Part I	3
383	Introduction to Ref. Materials	3
415	Education of Exceptional Students	3

Course No.	Subject	Credit
417	Education of Mentally Handicapped Students	3
443	Kindergarten-primary Education	3
450	Methods & Materials in Elementary Music	3
455	Student Teaching Laboratory	1-2
456	Sup. Std. Tchg. in Elem. School (including Special Education)	1-2
460	Methods & Materials in Elementary School Art	3
463	Methods & Mat. in English	3
474	Methods & Mat. in Social Science	3
475	Methods & Mat. in Speech	3
476	Superv. of Student Teaching in the Secondary School	1-2
479	Prof. Problems in Student Teaching	1
483	Adm. of the School Library	3
484	Literature for Children	3
488	Ind. Res. in Library Work	1-4
500	Introduction to Graduate Study & Research in Education	2
501	Adv. Educ. Psych.: Learning Section I	2
502	Social Found. in Education	2
503	Philosophies of Education	2
504	Hist. Found. of Amer. Educ.	2
505	Guidance Princ. & Practices Section I	2
507	Audio-Visual Materials & Equipment	2
508	Preparation of Audio-Visual Materials	2
509	Extra-class Activities	2
511	Educ'l. Test. & Evaluation	2
533	Mod. Tchg. Pro. in the Elem. School, Part I	3
526	Educational and Psychological Statistics	3
527	Workshop in Education	1-4
528	Individual Research in Educ.	1-4
531	Org. & Administration of the Elementary School	2
533	Curriculum in the Elem. School	2
535	Supervision of the Elem. School	2
537	Arithmetic in the Elem. School	2
539	Eng. & Read. in the Elem. School	2
543	Social Studies & Science in the Elementary School	2
548	Individual Research in Elem. School Education	2
549	Seminar in Elementary School Education	2
551	Sec. Educ. Org. & Administration	2
552	Improvement of Instruction in the Secondary School	2
553	Sec. Educ. Curriculum	2
555	Sec. Educ. Supervision	2
561	The Junior High School	2
568	Individual Research in Secondary Education	1-4
570	Basic Princ. of Educ. Administration	2
571	Basic Prac. in Educational Administration	2
573	School Finance	2
579	Public Relations for Schools	2
583	Teacher Personnel Administration	2
588	Ind. Res. in Educ. Administration	1-4
589	Seminar 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
Electrical Engineering		
434	Network Analysis	4
Engineering Drawing		
101	Engineering Drawing	2
102	Engineering Drawing	2
202	Architectural, Option #2	2
202	Descriptive Geometry, Option #4	2
English		
101	Freshman English	3
102	Freshman English	3
222	Survey of English Literature	3
316	Shakespeare	3
332	Victorian Poets	3
500	Bibliog. & Methods of Research	3
503	Old English	3
505	Readings in English Literature	1-4
506	Readings in Amer. Literature	1-4
514	Seminar: Modern English Novel	3
523A	Research: American Literature	1-4
523E	Research: English Literature	1-4
523L	Research: English Language	1-4

(Continued on Page 5)

'62 Summer Courses

(Continued from Page 4)

Course No.	Subject	Credit
156	College Geography	4
454	Geography of North America	4
455	Political Geography	3
465	Cartography	2
573	Independent Study	1-4
German		
201	Second-Year German	3
History		
101	Europe, 500-1500	3
104	U. S. Since 1865	3
302	Soc. & Cult. History of Europe, 1500-1789	3
305	Pol. & Dipl. History of Europe, 1815-1918	3
417	History of Russia	3
418	Suc. States of Central Europe	3
501	Intro. to Research in History	3
515	Seminar in Modern West. European History	3
532	Themes & Interpretation in American History	3
Industrial Arts		
316	Elementary Crafts	2
412	Basic Electronics	3
460	Exp. Mat., & Processes for Industrial Arts	2
509	Special Problems in Industrial Education	1-2
536	Organ. & Superv. of Industrial Arts in the Elem. & Sec. Schools	2
544	Adv. I.A. Draft and Design	2
Journalism		
202	Reporting	3
Linguistics		
451	Phonetics and Phonemics	5
452	Morphology-Syntax	5
503	Advanced Linguistic Analysis	5
504	Area Linguistics	5
505	Readings in Linguistics	Arr.
Management		
401	Corporation Finance	3
404	Business Policies & Management	3
414	Readings on Management	2-3
Marketing		
311	Marketing	3
414	Retail Store Mgmt. Problems	3
511	Seminar in Marketing	3
514	Special Problems in Retailing	3
Mathematics		
101	College Algebra	5
105	Trigonometry	3
106	Analytic Geometry	3
201	Differential Calculus	4
202	Integral Calculus	4
408	Solid Analytic Geometry	2
412	Differential Equations	3
331	Intermediate Calculus	3
504	Theory of Functions of Complex Variable	3
508	Numerical Analysis	3
or	Number Theory	3
Mechanical Engineering		
242	Elementary Thermodynamics	3
462	Engineering Economy	3
Music		
131	Brass Class	1
131	Percussion Class	1
131	Voice Class	1
131	Woodwind Class	1
222	Choral Union	1/2
224	University Band	1/2
302	Conducting	1
506	Advanced Composition	2
558	Research in Music Education	1-4
574	Choral Literature Since 1750	2
581	Advanced Instrumental Conducting	1
145, 146, 245,		
246, 345, 346,		
445, 446, 545,		
446.	Applied Music: Flute, Oboe, Clarinet, Saxophone, Organ, Percussion, Piano, Trumpet, French horn, Trombone, Baritone, Tuba or Voice	1/2-1
Philosophy		
201	Introduction to Philosophy	3
105	Man and Ideas	3
409	Philosophies of Science	2
503	Philosophies of Education	2-3
Physical Education		
207	Intermediate Swimming	1
220	Life Saving and WSI	1
Course No.	Subject	Credit
506	Tests and Meas. in	
205	Methods of Teaching Rhythms	2
	Physical Education	2
508	Princ. of Physical Education	2
510	Org. & Adm. of Public Rec.	2
512	Curriculum Prob. Literature & Research in Physical Education	3
513	Individual Research in Physical Education	1-2
520	Adv. Admin. of Physical Education for Women	2
Physics		
203	General Physics Laboratory	4
204	General Physics Laboratory	4
432	Electron Physics	3
503	Foundations of Modern Physics	3
547	Research	Arr.
Physiology and Pharmacology		
417	Readings in Physiology and Pharmacology	Arr.
501	Physiology and Pharmacology of the Autonomic Nervous System	Arr.
503	Advanced Physiology and Pharmacology	Arr.
506	Problems	Arr.
511	Research in Physiology and Pharmacology	Arr.
Political Science		
101	American Government I	3
202	International Pols.	3
304	American Const. Today	3
407	Political Behavior	3
505	Contemp. Pol. Ideol.	3
508	Legis. Process	3
	Thesis	1-4
Psychology		
101	Introduction to Psychology	3
213	Educational Psychology	3
351	Child Psychology	3
352	Adolescence Psychology	3
460	Mental Hygiene	2
491	Special Problems	2
401	Advanced Educational Psychology: Learning	2
510	Advanced Educational Psychology: Dynamics of Self	3
517	Individual Appraisal	3
518	Group Guidance	2
519	Occupational & Educational Information	2
521	Counseling	3
522	Organization & Administration of Guidance & Personnel Programs	2
523	Supervised Guidance (Sec. I, II, III)	3
550	Psychology of the Exceptional Child	2
570	Clinical Appraisal I: Individual Intelligence Testing	3
577	Supervised Field Work	3
591	Seminar in Clinical Psychology	2
592	Seminar in Psychology: (Specific Topic to be Determined)	2
593	Psychological Readings	2
596	Individual Research	Arr.
583S	Internship in Clinical Psychology	3
Religion		
102	Introduction to the New Testament	2
205	Religious Values in Modern Literature	2
235	Christianity, Marriage and the Family	2
Social Work		
447	Field Practice	5
Sociology		
201	Introduction to Sociology	3
309	Sociology of Childhood & Youth	3
310	Social Psychology	3
320	Public Opinion	3
406	Social Reform Movements	3
418	Sociology of Religion	3
Speech		
101	Fundamentals of Public Speaking	3
232	Introduction to Speech Corr.	3
305	Discussion & Conference	3
334	Clinical Prac. in Speech Corr.	1-2
334	Introduction to Phonetics	3
336	Psychology of Speech	3
431	Audiology: Hearing & Deafness	3
435	Voice Science	3
502	Seminar in Speech	3
505	Research Problems in Speech	1-3

Homecoming Plans Include Dedication Of Fritz Library

Dedication of the new million-dollar Chester Fritz Library will begin activities for the 1961 Homecoming, October 13-14 at the University of North Dakota, according to Michael Vance, general chairman.

Chester Fritz, a former UND student now an international investment banker who resides in Gstaad, Switzerland, and donor of the million dollars for the library, is expected to attend the dedication. Mrs. Fritz will accompany him to Grand Forks.

The dedication is tentatively being planned for the afternoon of Friday, October 13. The library is expected to be in operation at the beginning of the fall term.

Reunions of the classes of 1936 and 1951 are being planned as well as a meeting of the 1936 Lettermen's Club. The Homecoming parade is scheduled for Saturday morning, October 14 and in the afternoon the Sioux football team will meet the South Dakota State Jackrabbits.

Vance is a senior from Denver in business administration. Other committee members are James Kack, Grand Forks, publicity; John Smith, Bismarck, dance; Georgia Aalgard, Fargo, alumni; Ronald Cameron, Bowdon, parade; Robert Johnston, Cavalier, queen selection; Thomas Jones, Port Arthur, Ont., special events; David Jensen, Fargo, finance, and Molly Mullen, Grand Forks, secretary.

Climax Youth Gets Landers Scholarship

Russell G. Nelson, a 1961 high school graduate of Climax, Minn., has received a \$250 scholarship at the University of North Dakota.

Nelson received the Lander Scholarship, established by Miles Lander of Grand Forks and awarded each year on the basis of academic promise, financial need, character and citizenship.

Nelson is the son of Clarence O. Nelson of Climax. In high school he participated in band, chorus and a vocal ensemble. He is also a member of the Future Farmers of America.

Honors Program

(Continued from Page 1)

30 freshman students of marked ability to be invited to participate in the initial program this fall on an experimental basis.

Similar programs have been established within the last 10 years at about 400 universities and colleges throughout the country, according to Gillmor. Universities of this area which have four-year programs include the University of Minnesota and the University of South Dakota.

A native of Fort Frances, Ont., Canada, Gillmor received a B.A. degree in 1949 from the University of Manitoba in Winnipeg. He received a master of arts degree from the University of Minnesota in 1950 with a major in journalism and minors in English and political science. He has completed requirements for a Ph.D. at the University of Minnesota and will receive the degree at the fall commencement.

He came to the University of North Dakota in 1952 as an assistant professor of journalism. He was acting chairman of the department in 1957-58 and became an associate professor in 1957.

Gillmor was one of two instructors receiving the Distinguished Teaching Award at the University in 1958-59. He received a Danforth Foundation Fellowship for the academic year 1959-60 and studied at the University of Minnesota.

At UND, he has served on a number of student-faculty committees and is a former chairman of the Student Activities Committee. He is the author of the University Student handbook and holds an honorary life membership in Blue Key, national service fraternity.

Gillmor is a member of Kappa Tau Alpha, honorary journalism fraternity; Sigma Delta Chi, professional society of journalists; the Association for Education in Journalism; and the American Association of University Professors.

He is married and has two children. The Gillmors reside at 529 Oxford St. in Grand Forks.

NOTICE

The University Press will be closed for a one-week vacation period, August 7-12, 1961.

National Defense Administration Provides Nuclear Reactor for Mechanical Engineers

By SIG KRISTJANSON

The focal point of interest among the mechanical engineers in Chandler Hall at the University of North Dakota right now is the new nuclear reactor.

A grant of \$10,000 from the National Defense Administration provided the reactor, which still reposes in packing cases.

During the next few weeks the reactor will be set up. Basically this reactor is for training mechanical engineers in the fundamental practical applications of the nuclear reactor as a source of power.

"Campus residents need have no fear of radiation or an atomic blow-off from our reactor," said Ernest L. Multhaup, graduate assistant in mechanical engineering.

"The amount of uranium exposed to neutron producing material will not be large enough to produce a self-sustaining reaction."

The reactor installation will be shielded to some extent, possibly by lead sheathing. However, the radiation hazard is not great. The background radiation when the reactor is activated will be about equal to the radiation emitted from the luminous dial of an ordinary wrist watch.

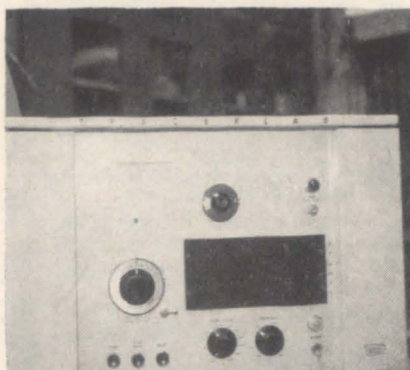
"While the hot news around here presently is the reactor, Chandler Hall has many other items of interest," said Palmer J. Reiten, professor of mechanical engineering.

An immense room is given over to the machine shop. One or another of the dozens of machines make possible virtually any kind of metal machining operation.

A small but complete foundry with its two adjuncts, a core shop and a pattern shop, provides instruction in metal casting. All castings must first be patterned in wood, to provide the reversed impressions in the sand molds.

A recent addition to the welding laboratories is a large 550 kilo-volt resistance welder.

"With the addition of the nuclear reactor to the equipment we have had gives us a very fine mechanical engineering set-up," said Mr. Reiten.



Part of control panel of nuclear reactor.



Uranium ingots in stout shielded packing crates, waiting use in nuclear reactor.

Medical School Receives Grant

The School of Medicine at the University of North Dakota has received a grant of \$5,000 from the National Cancer Institute, a branch of the Department of Health, Education and Welfare, according to T. H. Harwood, dean. This is the thirteenth year the grant has been renewed by the agency. The funds will be used in improving the present cancer training program and in purchasing supplies for this work, he

Unbeaten Rangers Win Softball Title

By LOWELL EDWARDS

The Rangers emerged as champions of the University of North Dakota's summer softball league by defeating Queen City 7-3 in the championship game of the league playoffs.

The Rangers remained unbeaten throughout the season. Queen City copped second place, losing twice to the Rangers, once during league play and again in the championship tilt.

In the consolation bracket, the Graduate Cast-offs captured third place by edging Bek Hall 15-11.

The final games of the league schedule, played July 20-21, resulted as follows:

Bek Hall 11, Anatomy 4
Rangers 3, Queen City 2
Field Mice 14, Law School 13
Graduates 20, Medics 9

The top four teams began the play-offs Wednesday, July 26. Queen City defeated the Graduates 5-3, while the Rangers knocked off Bek Hall 8-1.

The finals of the play-offs were played Thursday, July 27, with the teams coming out in the exact order of the final league standings as listed above.

The championship game promised to be a thriller in view of the fact that the Rangers had edged the Queen City crew by the tight score of 3-2 in their final league game.

The championship game was not as close as expected, however. Although fighting gamely all the way, Queen City was just not the match for the Rangers as the champions eased a 7-3 decision.

Credit for the smooth operation of the league this summer must be given to Roger Maresh. A UND graduate and native of Park River, Minn., Maresh spent the past year as a physical education instructor at a Fargo high school.

Final League Standings

Team	won	lost
Rangers	7	0
Queen City Packers	6	1
Graduate Cast-offs	5	2
Bek Hall	4	3
Field Mice	3	4
Anatomy	2	5
Law School	1	6
Medics	0	7

Getting in the University Swim Is Educational and Recreational

By EMMA ANNE SHANKS

The University swimming pool in the Fieldhouse has been the center of both educational and recreational activities.

The summer program comprised three phases.

The first phase was the regular University classes which included a beginner's class of 30 students and an advanced class of 27 students.

The second phase was the instructional program for children of faculty, students and staff on Monday, Wednesday, and Friday mornings. The three classes each met for 45 minutes, 20 times during the summer session.

The beginner's class of 55 members met at 9 a.m.

The intermediate class of 30 members met at 9:45 a.m.

The combined class of 32 members met at 10:30 a.m. This class was a three way combination. Twenty were working for swimmer's certificates, eight were junior life savers, and four were advanced swimmers.

In addition there were six water-

safety aides. These were children over 14 years of age who helped the instructors.

Those working for the water-safety aide certificates were: Jacqueline Thomforde, Larry Lasch, Joe Kulas, Mark Hansen, Ray Kuran and Dale Bradshaw.

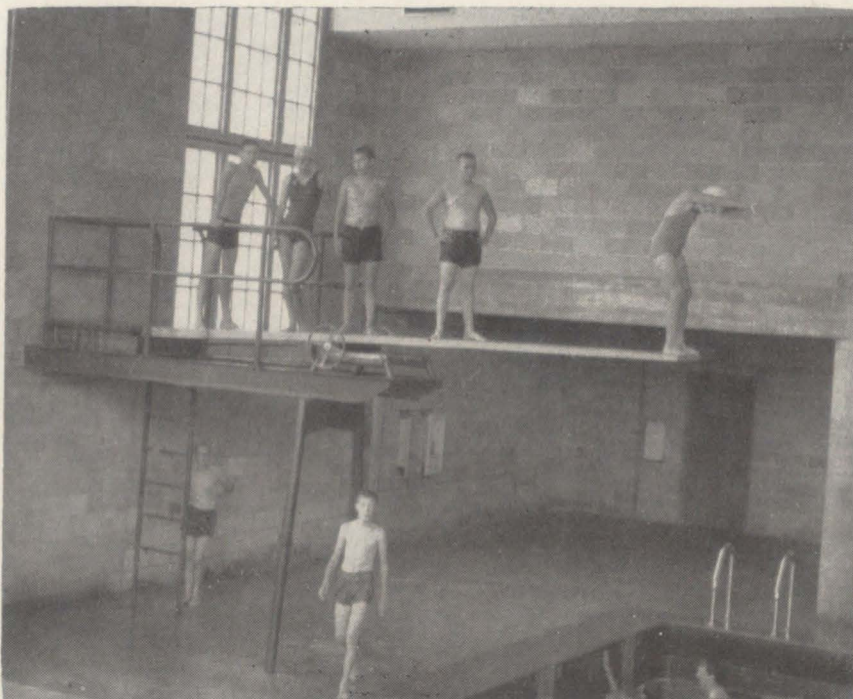
The third phase was recreational swimming from 3:30-5:30, Monday through Friday and from 6:30-8:00 on Tuesday, Wednesday and Thursday.

In charge of the recreational swimming was Chuck Nielson, head lifeguard. He was assisted by three certified water-safety instructors, Gale Nordell, Bill Selman, and J. Michele Dinsmore.

John Quaday, chairman of the physical education department for men, who has been in charge of the summer program, called the program a success. The attendance has been good, the children preferred afternoon swimming whereas the adults preferred the evenings.

A total of 395 tickets at \$1 each were sold.

The summer program ends on Friday, August 4.



Practicing the high dive during a recreational swimming session are, left to right: Don Mace, Susan Nelson, Larry Nelson, Billy Mace, and Sheila Monley.

Classical Music Emphasized on KFJM Schedule

By JAMES PENWARDEN

With summer school almost over many persons will perhaps find themselves with more time on their hands. For classical music enthusiasts, campus radio station KFJM is just the ticket.

KFJM will begin the second half of its summer feature music presentation this afternoon. The feature is a series of recorded operas from 2:30 to 5:00 p.m. each Thursday.

Today's program will consist of Puccini's "Madame Butterfly."

The remainder of the schedule includes: August 10, "Pagliacci" and "Cavalleria Rusticana"; August 17, "La Forza Del Destino"; August 24, "Barber of Seville"; and August 31, "Secret of Suzanne" plus scenes from "Elektra."

Operas given earlier in the summer included "Rigoletto," "Carmen," "Faust," "LaBoheme" and "Fidelio."

Opera fans can also hear their favorite music on Saturdays at 7:00 p.m. on "Highlights of Opera and Concert."

This includes selections from operas and vocal concert music.

Another summer-only music program on KFJM is "Chamber Group." This is a one hour program of chamber music at 1:00 p.m. each Tuesday, Thursday and Friday.

Scott Bryce, assistant director, describes chamber music as "music by a small group such as a quartet."

"It can be performed by almost any combination of instruments," he added.

Dr. Szyrnski Named UND Psychiatry Head

Dr. Victor Szyrnski, who recently resigned as director of the State Psychiatric Clinic in Bismarck, has accepted an appointment as professor and head of psychiatry and associate professor of neurology at the University of North Dakota.

While at the University, Dr. Szyrnski will remain as a consultant in psychiatry to the State Department of Health and to the newly created Mental Health Authority. He will transfer here in the fall.

Talented Students Conclude Program



An electronic binary counter gets the attention of three students at the third annual Science-Mathematics Institute for Talented High School Students which concluded Saturday, July 29, at the University of North Dakota. Working with the instrument are (left to right) Judie Erb, Minot; Robert Rust, Northwood, and Kent Kromarek, Scranton. Miss Erb and Rust were among 11 top students named at the conclusion of the institute. Each of the students worked with a UND instructor on a research project during the six-week institute.

Army, Air Force Cadets To Be Commissioned

Commissioning ceremonies for Army and Air Force ROTC cadets will be at 8:30 a.m. Saturday, August 5 at the University of North Dakota Armory.

Dr. George W. Starcher, UND president; Lt. Col. Thomas H. McGuigan, professor of air science, and Capt. Donovan E. Keester, acting professor of military science, will address the cadets and their friends and relatives.

Cadets receiving Army commissions as second lieutenants are Marvin F. Dietrich, Grand Forks, and Lawrence E. Grant, Hillsboro.

Air Force second lieutenant appointments will go to Jerold O. Dalton, Grand Forks; Donald J. Cooke, Fargo; Don A. Lindbo, Rolla; David C. Loken, Fergus Falls, Minn.; David R. Molin, Brainerd, Minn.; Dean A. Quick, Fosston, Minn., and John P. Schreiner, Bottineau. Loken and Schreiner will be designated distinguished military graduates.

Dr. Cash Again On Michigan Staff

Dr. W. Levi Cash, Jr., professor of psychology at the University of North Dakota, will again serve on the staff of the Summer Workshop of Human Relations in School and Community at the University of Michigan this summer.

This will be the sixth year that Dr. Cash has served on the staff of the two-week workshop, which begins Monday, August 7 and continues to August 18.

Purpose of the workshop is to provide a program that concentrates on the practical problems and needs of schools and communities and in understanding the principles and methods for the implementation of individual, group, institutional and community changes. Membership of the workshop is drawn from all parts of the United States.

Dr. Cash was the director of an Institute on Human Relations at UND in July. He has been at the University since September, 1960.