

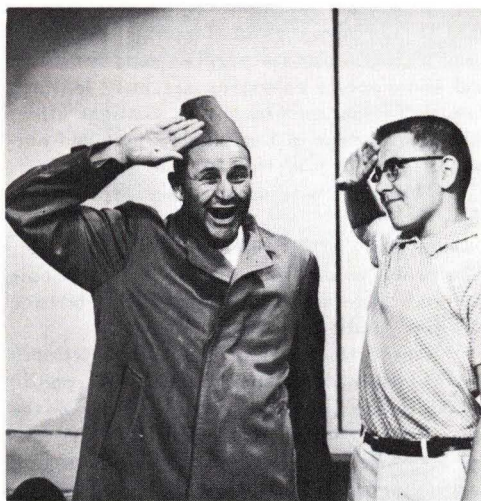
Summer Calendar

PUBLISHED FOR THE INFORMATION OF STUDENTS
AND FACULTY AT THE UNIVERSITY OF MINNESOTA
DULUTH

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"A THOUSAND CLOWNS"



BOB COHEN (left) TRIES BUT FAILS TO move Stephen Fedo with his favorite comedy routine in a scene from the UMD Summer Community Theater production of "A Thousand Clowns."

COOKOUT, SQUARE DANCE ON KIRBY TERRACE THURSDAY

The annual UMD Cookout—one of the highlights of second session activities—will held 5-7 p.m. Thursday on Kirby Terrace.

As an added attraction, a Square Dance will follow from 7-9 p.m. with Clyde Stewart as dance caller.

The menu will include chopped sirloin steaks on bun, potato salad, baked beans, cole slaw, watermelon, soft drinks, milk and coffee.

Of course, the meal is free and is open to faculty, staff, students and their families. But, everyone attending must sign up at Kirby Information Desk by Tuesday so the cafeteria will know how much food to order.

Old Wendfeldt, campus patrolman, again will head the "grill corps." He will be assisted by Bill McEwen, Chuck Mannel, Fred Witzig, Ken DeYoung and others.

SUMMER THEATER PRODUCTION SET FOR FRIDAY-SATURDAY

Herb Gardner's witty play about nonconformity, *A Thousand Clowns*, opens the UMD Summer Community Theater season with 8 p.m. performances Friday and Saturday in the Old Main Studio Theater on the old campus.

The comedy is being directed by Mike Fedo, a UMD graduate from Duluth.

Clowns deals with a disillusioned TV writer who quits his job then must decide whether or not to return when his rebellion against conformity means losing custody of his intelligent 12-year-old nephew.

Dan Kossoff, Minneapolis, plays Murray Burns the writer and Stephen Fedo, Duluth, his nephew Nick.

The cast also includes Larry Nachbar, Minneapolis; Anne Homstad, Roger Semerau, Duluth; and Tom Kovarik, Sturgeon Lake.

The UMD Community Theater also will present *See How They Run*, a farce in the tradition of "keystone cop" chase sequences, on August 14-15 in the Studio Theater.

Written by Philip King, it replaces the previously announced production, *Two For Seesaw*.

The second play will be directed by Fred Meitzer. The cast will include: Marta Monk-konen, Elizabeth Young, Richard Brandt, Merilee Hobbs and James Robinson.

GUTHRIE TRIP PLANNED

Reservations for the Guthrie Theater trip on Saturday, August 15 close today (Friday).

A deposit of \$3.15 will hold a theater ticket and bus seat for you. Total cost of trip is \$8.

Reservations can be made at Kirby Information Desk.

The bus will leave Kirby at 10 a.m. the morning of the performance . . . an 8:30 p.m. presentation of Shakespeare's *Henry V*.

Trip participants will have the afternoon to spend as they wish in Minneapolis. The bus will return to Duluth immediately after the Guthrie performance.



DEAN LAGRANGE, head of the scholarship Committee for the Ancient and Accepted Scottish Rite of Duluth, presents scholarship checks to Duluthians Linda Heitsch and Jan William Schmidt as UMD Provost R. W. Darland looks on.

SECOND POP CONCERT AT STADIUM WEDNESDAY

Two guest soloists from Minneapolis and the Duluth Boys Chorus will be featured with the Summer Pops Orchestra at the season's second "Evening Under the Stars" concert at 8 p.m. Wednesday in Wade Municipal Stadium.

A new Richard Hayman arrangement of current country-western tunes and Bob Dylan's "Blowin' in the Wind" also will highlight the program.

Baritone Arnold Walker and soprano Helen Rice, who have appeared in Broadway musicals and throughout the Midwest, will be heard in favorite arias and duets.

They will sing excerpts from Gershwin's "Porgy and Bess" and Mozart's "Don Giovanni." Walker's solos will include an aria from "The Marriage of Figaro" and Miss Rice will do a number from Gilbert and Sullivan's "HMS Pinafore."

The Boys Chorus, directed by Richard Roby and George Mead, will present "Blowin' in the Wind" and selections from "Camelot."

Orchestra numbers, conducted by Hermann Herz, will range from Hayman's "Pops Hoedown" to medleys from Richard Rodgers' "No Strings" and Kalman's "Countess Maritza."

EVANS ART EXHIBIT

Edward Evans, art instructor at Hibbing High School, will present an exhibit of abstract oil paintings on the Tweed Gallery balcony at an opening reception from 8-10 p.m. Tuesday. The show runs through Saturday, August 9.

LAKE RESEARCH TEAM ESTABLISHING "BASELINES"

The layman might take it as a slightly zany observation but Lake Superior has "nothing in abundance except water itself".

Yet to the biologist it's a sensible evaluation. He simply means that the largest body of fresh water in the world is not far from being perfectly pure.

Since 1956 a limnological (fresh water) research force has been collecting basic information on Lake Superior. It began with the study of surface currents, water temperatures, nutrients and chemicals.

At present a team of University of Minnesota biologists and students from the Duluth and Minneapolis campuses are busy learning how these factors along with sunlight affect the development of the lake's plant and animal life.

"What we're doing is establishing 'baselines of normality,'" explains Dr. Theron O. Odlaug, head of the UMD biology department. "We're determining the amount of microscopic life and algae at certain depths for reference in future studies."

That little life has been found prompts Dr. Theodore A. Olson, professor of public health in the School of Public Health on the Minneapolis campus, to remark: "It (the lake) is the closest thing we have anywhere to a perfectly pure surface water."

Started on a temporary basis, a permanent Limnological Research Center was established in 1963 under the University's Graduate School supported by a Louis and Maud Hill grant of \$207,721 with Dr. Herbert E. Wright, Jr. as director.

There are three graduate students from Minneapolis and two undergraduates from UMD working with Odlaug and Olson this summer.

David Clem, a native of Washington and an officer of the U.S. Public Health Service; Curtis Golden, a North Carolinian, and James Summers of Nashville, Tennessee.

The latter two hold M.A. degrees from North Carolina College at Durham and are seeking second master's degrees in public health biology.

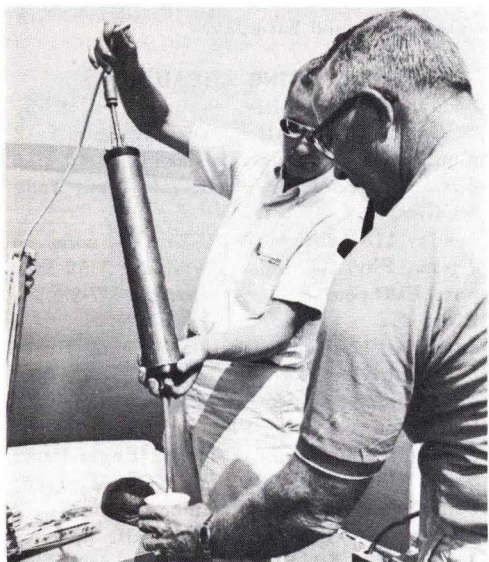
UMD is represented by Ron Cheetham, Duluth, and Bill Tuominen, Floodwood. Both are biology majors.

Last summer the U.S. Corps of Engineers donated the 30-foot launch *Oneota* to the researchers. Until then boats had to be rented.

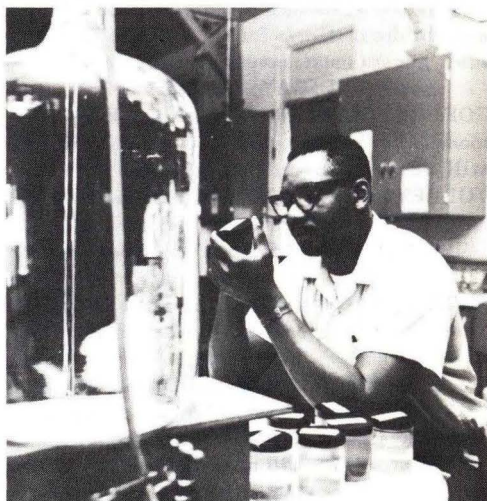
The boat's equipment includes several types of water bottles and nets for sampling the water, a bathythermograph for measuring water temperature at various depths and the "secchi disc" and photometer—both used for registering light penetration.



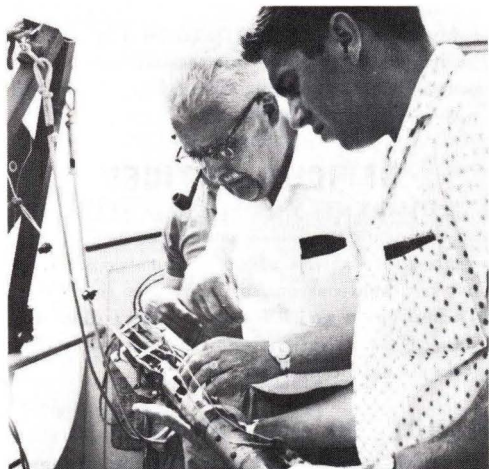
Ron Cheetham, Dr. Theron O. Odlaug and Curt Golden check over research equipment on the launch "Oneota" (pictured above at its Knife River landing).



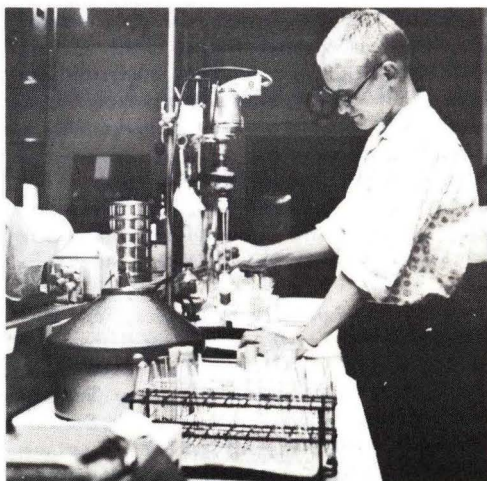
David Clem pours Dr. Odlaug a cold cup of Lake Superior water from 25 meters down.



James Summers (above) labels jars containing concentrated specimens while Bill Tuominen (below) grinds up a glass filter.



Dr. Theodore Olson and Ron Cheetham prepare the bathythermograph for measuring water temperature.



Special Events CALENDAR

by Connie Skidmore



REGISTER FOR ALL ACTIVITIES AT KIRBY INFORMATION DESK

Ed. Note: An amateur cameraman caught UMD's director of special events and recreation with one ski up and one ski down and on her way down at Pike Lake in the above picture.

MONDAY, AUGUST 3

VOLLEYBALL-BASKETBALL, noon to 2 p.m., Physical Education building. Basketball in Rm. 100 and volleyball in Rm. 155.
SWIMMING, 1:30-3:30 p.m., UMD pool. Adults and children. Don't forget! All children and adult guests must have swimming permits.

TUESDAY, AUGUST 4

COFFEE CHATTER, 9-10:30 a.m., Kirby ballroom. No mistake about it. The coffee is still free.

VOLLEYBALL-BASKETBALL, noon to 2 p.m., Physical Education building.

SWIMMING, 1:30-3:30 p.m., UMD pool. Adults only.

BRIDGE INSTRUCTIONS, 7-9 p.m., Kirby 252. Newcomers welcome! Dr. Lew Rickert is your instructor.

WEDNESDAY, AUGUST 5

VOLLEYBALL-BASKETBALL, noon to 2 p.m., Physical Education building.

SWIMMING, 1:30-3:30 p.m., UMD pool. Adults and children.

ICE CREAM TREAT, 2:30-3:30 p.m., Kirby Terrace. Cool off! A double or single scoop of your favorite ice cream is free.

FILM FESTIVAL, 8 p.m., Science Auditorium. An Italian film, *Daughters of Destiny*, starring Claudette Colbert and Martine Carol.

POP CONCERT, 8 p.m., Wade Municipal Stadium. Show tunes, guest soloists from Minneapolis and the Duluth Boys Chorus will be featured performers.

THURSDAY, AUGUST 6

VOLLEYBALL-BASKETBALL, noon to 2 p.m., Physical Education building.

SWIMMING, 1:30-3:30 p.m., UMD pool. Adults only.

COOKOUT, 5-7 p.m., Kirby Terrace. You must sign up by Tuesday, August 4 at Kirby Information Desk.

SQUARE DANCE, 7-9 p.m., Kirby Terrace. Spin your partner to the calls of Clyde Stewart.

FRIDAY, AUGUST 7

FREE COFFEE, 9-10:30 a.m., Kirby ballroom.

VOLLEYBALL-BASKETBALL, noon to 2 p.m., Physical Education building.

SWIMMING, 1:30-3:30 p.m., UMD pool. Adults and children.

UMD SUMMER COMMUNITY THEATER, 7 p.m., Old Main Studio Theater. Herb Gardner's comedy, *A Thousand Clowns*, will be presented today and Saturday.

LOOKING AHEAD

Monday 10—Free Coffee, 9-10:30 a.m., Kirby ballroom; Volleyball-Basketball, noon to 2 p.m., Phy. Ed. bldg.; Swimming, 1:30-3:30 p.m., UMD pool; Baseball, 7:30 p.m., Wade Stadium.

Tuesday 11—Volleyball-Basketball, noon to 2 p.m., Phy. Ed. bldg.; Swimming 1:30-3:30 p.m., UMD pool; Bridge Instructions, 7-9 p.m., Kirby 252

Wednesday 12—Lecture: Dr. Arnold Buchheimer of City University of New York, 10:30 a.m., Science Auditorium; Volleyball-Basketball, noon to 2 p.m., Phy. Ed. bldg.; Handicap Golf Tournament, 2-4 p.m., Enger Park; Social Hour, 2:30-3:30 p.m., Kirby Terrace; Film Festival, 8 p.m., Science Auditorium.

Thursday 13—Volleyball-Basketball, noon to 2 p.m., Phy. Ed. bldg.; Swimming, 1:30-3:30 UMD pool; Watermelon Picnic, 3-4 p.m., Phy. Ed. bldg. lawn; Dance, 9-11:30 p.m., Kirby Lounge.

Friday 14—Coffee Treat, 9-10:30 a.m., Kirby ballroom; Volleyball-Basketball, noon to 2 p.m., Phy. Ed. bldg.; Swimming, 1:30-3:30 p.m., UMD pool.

OFFICIAL NOTICES

ALL CURRENTLY ENROLLED STUDENTS who plan on completing undergraduate degree requirements at the close of the current term must file applications for degree in the Office of Admissions and Records no later than August 7, 1964. Applications received after that date will not be considered.

NICHOL TO CONFERENCE

Dr. James C. Nichol, professor of chemistry at UMD, will attend the Gordon Research Conference August 3-7 on "Biopolymer-Solvent Interactions" at Tilton, New Hampshire.