WESTERN'S 74TH COMMENCEMENT — A total of 1,670 students earned bachelor's degrees at Western during the 1972-73 academic year, and 238 master's degrees were granted. Of those, approximately 600 attended commencement exercises on June 8. Commencement speakers (right center) were Dr. Erhart Schinske, professor of speech, and Fairhaven College student Joie Fukumoto. Students participate in memory walk ceremony (lower left) while at lower right Dr. George Gerhold, chairman of the College Senate, leads the procession to Carver Gymnasium as grand marshal.
Peter Kotzer, resident physicist at Fairhaven College, has a singular claim to fame.

"At least," says Kotzer, "I'm the only person, so far as I know, who has conducted research at a permanent, manned, underwater lab."

The lab to which he refers is Perry Hydro Lab located a mile off the coast of Grand Bahama Island and 50 feet below the surface of the water. Kotzer, along with some of his Fairhaven students, will be returning to the site in July when he will retrieve three nuclear emulsion detectors which he deployed under water several months ago at depths of 50, 100 and 150 feet.

During the intervening months, the detectors have been recording the tracks of cosmic rays and gathering other information to be used as research on the underwater cosmic-ray environment.

If all that sounds like something from Jules Verne, equipment and facilities used in such underwater work are even more so. The round, yellow underwater lab, which sits on a heavy concrete tripod, looks as though it would be equally at home sitting on the surface of the moon.

Designed to accommodate scientists for periods of up to two weeks, it is supported by an unmanned buoy from which it is supplied with electrical power, air pressure and communications linkage. Use of the buoy eliminates the need for a support vessel on the surface and thus lessens the expense of maintaining the underwater lab.

Among the more obvious benefits, Kotzer points out, is that knowledge of what's happening to water is necessary in order to correct for any adverse effects which may be occurring. In his own field of cosmic ray research, experiments will provide data on underwater radiation which, among other things, will determine dating of sediments in ocean floors.

Along with such—to the layman—technical benefits, deep sea research may one day provide an answer to the question of how to feed an over-populated world. Knowledge of edible undersea foods and their harvesting and replenishment will, according to Kotzer, be of vital importance in the not-too-far distant future.

"Learning how to improve man's ability to reach great oceanic depths can also provide other benefits. "As an example," Kotzer says, "there is natural gas bubbling now in the Gulf of Mexico. To stop this wastage of a valuable natural resource requires a man's going down to plug a leak. But it can't be done today because we can't get a man down to that depth."

To further oceanic research Kotzer is promoting establishment of a manned underwater lab facility for Puget Sound, an ambitious project which currently, he says, is being discussed in Washington, D.C.

"This could be a far more advanced facility than any now available. Through its use, man could reach heretofore unattainable depths," Kotzer says.

With small, manned submarines operating in conjunction with such a Puget Sound lab, research could be carried out in the Strait of Georgia at depths of 1,200 feet. "This is a long range goal," he says, "but I feel it will materialize within three to five years."

Financing for such a project could come from a variety of sources, Kotzer says, including the federal government which may have more money for deep sea exploration as the space program is cut back. "It's a question of committing resources to underwater programs as monies become available," he notes.

In Kotzer's personal opinion, "America is truly leading the world in placing men undersea at the greatest depths and for the longest periods of time."

Flora to step down in 1975

President Flora has announced his intention to step down from the presidency and be transferred to the department of biology in September, 1975. His request was accepted by the board of trustees.

In announcing his decision, Dr. Flora stated that "ten years in the central administration of the college is sufficient for anyone."

Dr. Flora has served the college as president since March, 1968, following a year as interim president. Prior to holding the latter position, he served for two years as academic dean of Western

Dr. Flora plans to remain at Western and to return to his first and primary interest, the teaching of marine invertebrate zoology. As a teacher, he has won national recognition for a televised series entitled "Tide-Pool Critters," and has co-authored a major reference work on West Coast seashore life.

A new "Tide-Pool Critters" series is planned for televised release this summer.

Vik crew scores

Western Washington's four-oared crew made some noise in their entry into big-time rowing by winning a preliminary heat and finishing fourth in the finals of the Intercollegiate Rowing Association (IRA) 2,000-meter race June 2 on Onondaga (N.Y.) Lake.

Coach Bob Diehl's Viking shell finished fourth in the Saturday finals behind UCLA, Coast Guard and Yale. Following Western were Brown University and Kansas State. The Viks' time was 7:20.4.

Rowing in the Western shell were Pat Burns, bow; Rich Maynard, 2; Brandon Keyes, 3; Don Buthorn, stroke; and Jeff Hiroo, coxswain. They are the stern four of the Viking eight which placed sixth in the Western Sprint Championships.

"This is the best thing that has happened to us in our 5½ years in a rowing program," commented Coach Diehl, a Bellingham businessman.
Doug Simpson to head alumni

The Alumni Association board of directors at its annual spring session welcomed new members, elected officers for the coming year and adopted its operating budget for the new fiscal year.

Doug Simpson ('61) of Issaquah will succeed Larry Elfendahl of Mount Vernon as president. Others elected to office are Bob Thorgrimson ('61) of Seattle, president-elect; Donna Barnhart ('61) of Bellingham, returned as treasurer; and Leo Dodd ('60) of Redmond and Tim O'Grady ('70) of Tacoma, executive-at-large positions. These persons, along with Executive Secretary Steve Inge, will compose the executive board of the association.

New board members who will begin serving a three-year term include Bruce and Ingrid Osborne ('64) of Puyallup, Larry Dittloff ('70) of Olympia, Dave Swensen ('72) of Federal Way, Janine Shinkoskey ('72) of Bellevue, Don Bagnall ('58) of Bothell, Russ Van Buren ('71) of Everson, Doug McCoy ('64) of Seattle, Don Maio ('61) of Seattle, Barbara Bumgarner ('61) of Edmonds, Bob Wilcox ('50) of Sedro Woolley and Joe Malik ('60) of Aberdeen.

The association will continue to pursue the same programs it has in the past, including alumni admission counseling, financial assistance to the college and legislative interest. Areas which will see substantially increased activity are the fields of athletics and college-community relations.

The association will endeavor to bring alumni into closer contact with the college this year as Western focuses on the past 75 years of growth and diversification in celebrating its diamond anniversary.

Western 75th anniversary begins

As the addition of the 75th anniversary logo to the Resume masthead indicates, Western's Diamond Anniversary year officially began July 1. Anniversary activities are not scheduled to begin until after the beginning of fall quarter, however.

According to Dr. Arthur Hicks, professor emeritus of English and chairman of the Diamond Anniversary Committee, a fall conference on learning has been set for November 15 and 16 as a first major event of the year. Title of the conference will be "Cultural Factors in Learning and Education."

Speakers for the fall-quarter event include Professors Harrison Gough, University of California at Berkeley; Francis L. K. Hsu, Northwestern University; Wallace Lambert, McGill University; Lawrence Littig, Howard University; Robert Thordyke, Teachers College, Columbia University, and Thomas Billings, WWSC.

Conferences are also scheduled for winter and spring in conjunction with dedication of the new Northwest Environmental Studies Center and a new concert hall in the Auditorium-Music Building. The spring event will concentrate upon the arts, with commissioning of an original musical composition tentatively planned.

A 75-year history of the college, entitled "Western at 75," is being written by Dr. Hicks.

Miller chosen

Dr. John A. Miller, associate professor of chemistry at Western, has been selected as an associate of the Danforth Foundation, a national organization dedicated to improving student-faculty relations and strengthening the teaching-learning process.

A member of Western's faculty since 1966, Dr. Miller has served as a chemist and as a member of the science education faculty. From 1969 to 1971, he was coordinator of the science education faculty.

Five journalism students win scholarships

Five journalism students at Western have received scholarship awards for the 1973-74 school year. They are Rochelle Henderson of Tacoma, Debbie Hudson and Susan Gawrys Cole, both of Bellevue, Stephanie Anne Smith of Moses Lake and Judy Mooers of Spokane.

Henderson, a sophomore reporter for Western Front, and editor of Unity, a newsletter published by students at the College of Ethnic Studies, was awarded $500 by Allied Daily Newspapers. She will intern this summer at the Yakima Herald Republic.

Cole and Smith, both journalism students in their junior year, received $300 scholarships from the Seattle chapter of Women in Communications, Inc.

Hudson, a senior, won second prize in a national biomedical journalism award program sponsored by the National Society for Medical Research. The award was presented for an article in the spring, 1972, issue of Klipsun on the subject of research on monkeys with divided brains by Dr. Merle Prim.

Inland Empire Chapter of Women in Communications presented their annual $150 award to Mooers. A junior, she is currently serving as copy editor of Western Front and will intern this summer at the Davenport Times.

Bowman resigns

Richard L. Bowman, assistant professor of physical education and track coach at Western, announced his resignation, effective the end of spring quarter. In leaving, Bowman cited dissatisfaction with support for the athletic program plus personal reasons for making his decision.

A member of the coaching staff since 1969, Bowman came to Western from Olympic Community College and Montana State University. He had been track coach since 1970.

Last year, he was selected by the Amateur Athletic Union to make a three-week coaching tour of Australia with twelve of the top U.S. track athletes. His WWSC team won the Evergreen Conference and National Association of Intercollegiate Athletics District I cross-country championships last fall and he was named NAIA District I cross-country coach of the year.

Bowman plans to enter private business in the Bellingham area.
There is one thing you can say about teaching here—it certainly is unusual.

The “here” referred to in that opening sentence is Little Diomede Island, the last piece of U.S. soil before crossing the International dateline in the Bering Sea and entering the Soviet Union.

The geography of the island would seem inhospitable. It is composed largely of granite, with only sparse vegetation, no trees and very little dirt. What little soil can be found is usually locked up in permafrost. The native village is a community of about 100 persons, 31 of whom are children attending the school.

In the winter the temperature hangs in the low 30s—the minus low 30s! From October when the last supply ship leaves, until December when the ice is solid enough to hold aircraft, the island is isolated. The sun will break over the horizon for an hour, but the day will never get beyond dawn before it sets again.

The native population came from Siberia many years ago. Traditionally the people lived in small houses of stone, caked with sod, which are dug into hillsides. Today they have modified the design to include pieces of scrap wood, most of which was salvaged from an earlier school building that was destroyed by fire. The homes are very small, very clean and very crowded. Heat comes from a gasoline camp stove, supplemented by oil lamps.

Although these may seem like somewhat primitive conditions under which to teach, the Walshes insist they are not. Says Becky, “The BIA provides you with more teaching aids than you would ever have in a more conventional school. We have color video tape players, cassettes of Sesame Street and Electric Company, and there are more cassettes coming.”

Becky says their supplies include a computer for math drill that can be set to the level of each student in the school. “We really couldn’t ask for better teaching conditions,” she adds.

The people of Diomede are friendly in the broadest sense of the term, the Walshes report. They enjoy human companionship and they include the teachers of the school in their activities. Any sense of isolation is due to the geography, not to the neighbors.

Obviously, teaching on Diomede is different from teaching in suburban...
ben Ozenna read?

IMO YOUNGSTERS ATTENDING A BUREAU OF REMOTE LITTLE DIOMEDE ISLAND IN THE BERING BECKY WALSH, TAUGHT THERE LAST YEAR.

Seattle, although the paraphernalia may seem similar. Of the 31 students enrolled Becky has 17 in grades one through four, while Dick has the remainder in five through eight. The children, Dick observes, have largely lost their ability to speak the native tongue, and their English is terrible. "In effect," he says, "they are unable to communicate well with anyone."

The curriculum includes the basic language and math skills that any elementary school would offer, but with some notable differences. For instance, seal skin sewing and bead work are required for all girls. Ivory carving, a highly developed local art form, is taught to all boys.

Also included is a course in Arctic survival, for a hunter must still know how to survive on drifting sea ice if he is ever to be seen again.

A teacher's life is probably more exciting on Diomede, in spite of its relative isolation, than it would be elsewhere. Where else can you be flying over the Bering Sea and have your plane lose its oil pressure, giving you 10 minutes flying time to reach a base at least 10 minutes away by air.

And when a child is injured you can't always call for medical help. You get on the radio and have a doctor in Nome instruct you on how to sew up a boy's head which has a five-inch gash in it.

Improvisation is probably the key to teaching happiness in the life of the Walshes. Operating in a different cultural milieu, they must discover and use whatever teaching techniques would seem to be effective. Supervision is slight, for during their year, a supervisor called but once, and that was on a Saturday.

"The opportunities for learning what you are capable of doing as a teacher are enormous," says Dick, who gives this freedom of opportunity as the main reason for their choosing to teach in this environment.

"We were both getting tired of the life style of the lower forty-eight," Dick explains. "Up here you don't have the daily trips to the supermarket and daily drive to school. Our classrooms are below our living quarters, and it takes just 20 seconds to get to work. We live with these people, and have a closer relationship between family and school than you can find anywhere else."

Becky adds that it is not easy when the sun is gone and the whole world is caught up in a "blue funk" and your only contact with the outside world is a very questionable radio.

However, the sun does finally return and the planes and boats begin calling again. It's then that the Walshes find their surroundings very rewarding and realize that they are doing what they want to do most—teach.
Starting block is step in right direction

A group of students at Western got a running start in the business world with experience they gained in a year-long project. They formed an organization to design and produce a new type of starting block to be used by high school and college track teams.

With advice from faculty members, businessmen and athletes, the group gained insight into the principals to be learned and obstacles to be overcome in starting a new business venture.

The college entrepreneurs first met during spring quarter, 1972, in weekly sessions to discuss the idea of developing and delivering a product for sale. During the summer, Dr. Robert Patton, associate professor of economics and business, and Michael Bjur, assistant professor of technology, began accumulating reference materials and planning strategy needed to take a product from design concept to the market place in one school year.

Other than the two advisers, who were paid by the college with help from an appropriation granted by the state legislature for innovative educational programs, the students received no outside assistance in their endeavor. Any advice or capital required for design or production had to be sought out, as would be the case in any business venture.

The students set up a booth on campus and offered a $25 award to anyone suggesting a product which they would produce and market. From some 300 suggestions, they selected the idea of the starting blocks, submitted by Western's track coach, Richard Bowman.

The blocks, a modification of the variety currently in use, permit use of a starting technique similar to that used successfully by Soviet sprinter Valery Borzov at the Olympic Games in Munich last summer. A similar design produced in this country has been too heavy and too expensive for wide-spread use.

With the modified block, runners use a starting stand which permits the front foot to be closer to the starting line and a portion of the body to actually be ahead of it, a definite advantage in comparison with conventional sprint starts.

The new blocks have a wider and longer foot rest that provides better support and is adjustable to place the runner in a comfortable, balanced position.

The students' company was formally named Com-Tech Enterprises. A president and other administrators were selected and departmental meetings began to take place.

Before Christmas vacation, the organization was turned over to the students and the two faculty members began functioning in an advisory capacity only.

The students contracted to design the new product, develop and test production techniques and produce 25 prototype blocks by the end of spring quarter. They sold the products and the business to Bowman at the end of the year and financed their operation through advances he has paid on the agreed selling price. All materials used were purchased and a rental fee was paid for use of any college equipment and facilities.

From information gleaned from Bowman, independent research, observation of runners in action and examination of existing starting-block designs, design parameters were developed. The company then set about meeting those parameters.

From some 40 preliminary concepts, the students refined their thinking until two versions emerged which were developed to the prototype state. Both versions were made of aluminum for light weight and strength; both models were adjustable to fit athletes of varying sizes.

As the next step, the prototypes were tested and a final design selected for production. A portion of the testing and evaluation took place at a meeting of regional track coaches held at Western in March. The blocks have also been taken to a conference of track and field officials to ensure that the finished product will meet NAIA and international track and field regulations.

Because of the success which athletes are experiencing using a modified start, Bowman believes there is a ready market for the product. In fact, he has already made tentative arrangements to sell some of the blocks.

Com-Tech believes its improved product will be as lightweight as blocks currently in use and that it will cost about $45, comparable to the cost of equipment now available.
Music library given Toscanini recordings

A double set of 50 Toscanini recordings has recently been presented to the music library at Western in memory of Rogan Jones, Bellingham radio pioneer and innovator. The gift, enhancing Western’s library collection, was presented by Edward Bloch of New York.

Jones himself had earlier enriched the WWSC music collection in 1965 with presentation to the college of his Heritage Collection of classical recordings. According to his widow, that collection had originally been assembled in New York by Alfred Wallenstein, noted conductor and cellist with Toscanini, when Jones conceived the idea of putting together automated programs of classical music.

“That library was considered to be the best music of our heritage,” Mrs. Jones said recently; and she added that Wallenstein’s connection with the project was terminated when the musicians’ union objected to his working with automated music.

The library was subsequently shipped here and with it came Edward Bloch who had worked with Wallenstein on the collection in New York.

“Rogan bought seven FM stations up and down the coast,” Mrs. Jones recalled. “He believed that if the collection was the best of classical music, it needed to be played on the best of stations.”

With the demise of further Heritage programming, Jones donated half of his double set of classical library recordings to WWSC. The other set was later sold to a southern university.

Jones came to Bellingham in 1928 and bought radio station KVOS for $2,600, his widow said. His later business ventures included television and the highly successful International Good Music. He died in April, 1972.

The newest Jones memorial—the Toscanini collection—consists of stereo reproductions of original monophonic recordings. Included are several Beethoven symphonies, works of Verdi, Tchaikovsky, Wagner, Rossini, Mozart, Schubert, Mendelssohn and Brahms, as well as works from several other composers. All records in the collection are in double sets with the exception of two which are private recordings.

According to Phil Ager, chairman of the music department, the gift was heralded by a phone call from Bloch who asked if the college would be interested in the collection. Assured that it would, he promptly shipped the records, valued at about $700, to the library.

Each of the new recordings will bear a memorial plate reading “Presented in memory of Rogan Jones by Edward Bloch,” reminders to those music lovers who use them of the contributions to WWSC of a dedicated and talented man.

Dr. Henry G. Schwarz, professor of history and political science and director of the Program in East Asian Studies at Western, began a two-month trip to the Soviet Union, the People’s Republic of China and the Mongolian People’s Republic this summer following spring-quarter finals.

Dr. Schwarz is the first China expert from the Pacific Northwest to be able to visit China in recent years and one of extremely few Americans ever to go to Mongolia. He has been invited to visit Moscow, Ulan Bator, Hong Kong, Canton, Hangchow, Shanghai and Peking, returning to Bellingham in early August.

While he is away from WWSC, he will make scholarly contacts with the Institute of Oriental Studies in Moscow and the Mongolian Academy of Sciences. He will also do research on Chinese Central Asia, initiating exchange of scholarly materials in Moscow, Ulan Bator and Peking.

Dr. Schwarz’ wife, Tracy, will accompany him on his journey and will serve as his interpreter in the Soviet Union.

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Elsí Vassdal, a major in the visual communications education (VICOED) program of the technology department, has been selected to be a guest editor of Mademoiselle magazine this summer.

As guest editor she will be one of 14 girls selected to write, edit, do photography and layout for one issue of the publication. Vassdal’s selection for the honor came as a result of material, including articles and examples of layout and design, which she submitted in competition with some 900 entrants from coast to coast.

During the 1971-72 school year, she served as a college board member of the magazine. In that capacity, she was one of a number of students throughout the nation who provide Mademoiselle with information, keeping the magazine informed about events and trends on college campuses.

The WWSC junior traveled to New York to work on the August issue of the magazine. She is the daughter of Mr. and Mrs. Thomas G. Vassdal of Bellingham. Mr. Vassdal is an assistant professor in Western’s art department and Mrs. Vassdal is administrative assistant to Dr. J. Alan Ross, Dean of the Graduate School.
Enid S. McLane honored

A 1918 graduate of Bellingham Normal, Western's forerunner, was honored recently when the first building of the Kenai Peninsula Community College in Alaska was named in her honor.

For Enid Stryker McLane it was a singular tribute to a dedicated pioneer teacher who hiked for miles to teach Kenai Peninsula children, did janitorial work and generally kept the school fire burning.

Newspaper accounts told of how Mrs. McLane appeared overwhelmed as University of Alaska Regent Roy Madsen during the dedication read excerpts from letters of her admirers who had proposed that the single-story classroom, library and administration office building be named the Enid S. McLane Building.

The letters spoke of her inspiration and dedication to education. Mrs. McLane noted that the building named for her was in no way reminiscent of the facilities used in the 1920s when she taught at Ninilchik, Kaslof and Kenai.

Now retired, she lives at Kenai with her sister, Mrs. Jetret S. Petersen, who is a 1918 graduate of Bellingham Normal. Both women are widows. Their address is Box 160, Kenai, AK 99611.

In Memoriam

'08 SARAH CAMP CARRIKER, March 17, in Wenatchee.
'18 ALMA T. NELSON, April 19, in Tacoma.
'37 CHARLES WHITELEY, February 24, in Bellingham, of a coronary attack.