**Dwarikesh directing exploration of Indian caves**

Explanations of what are believed to be the oldest known cave-wall paintings in India are being directed by D. P. S. Dwarikesh, linguistics, from his office some 7,000 miles away. Dwarikesh, who has been to India since 1968, is a native of Agra, India. A research team was headed first located the network of previously unexplored caves in March, 1979. The caves, containing many paintings, were entered after Shir Ram Sharma, a civil engineer and director of Dwarikesh, told of a complex of water-cut caves near the village of Pahargarh along the Anan Rivers, some 260 miles south of Delhi. Sharma resides in Pahargarh.

Dwarikesh observed that the oldest cave paintings previously found in India are near the city of Bhimbetka, 260 miles south of Pahargarh. "Because the geography of the two areas is similar," Dwarikesh said, "I believed the caves near Pahargarh might contain similar paintings."

The Pahargarh caves showed no signs of having been entered for perhaps thousands of years, Dwarikesh noted. The paintings in some of them may date back 20,000 years, twice as old as those in the Bhimbetka area caves.

The painted images at Pahargarh and Bhimbetka are primitive representations of people, animals and some abstract designs. "Animals, including deer, buffalo, cattle, dogs, horses and elephants, are represented," he said. "The people are shown hunting, in battle and in group dancing."

**Graft memorial tree-planting next week**

A tree planting ceremony in memory of Bryna Graft, a member of the faculty, will be held at the University on its bargaining team: Robert Beane, director of budget and financial planning; Robert Boughner, assistant dean, College of Applied Sciences; Michael Moskovitz, assistant vice president for academic affairs; John Nangle, associate director of institutional research; Dinah Rank, director of collective bargaining and contract administration; chief negotiator; and William Welker, chairperson of the Department of Accountancy.

The AUAP negotiating team includes: James Semelroth, languages, chief negotiator; Don Lick, mathematics, AUAP president; Michael McCarville, chemistry; George Miller, educational and professional development; Robert Reel, economics; and Shirley Woodworth, communications arts and sciences.

**University closed for holiday Friday**

Classes will not meet Friday and most university offices, except those providing essential services, will be closed in observance of the Good Friday holiday. Schedules for the libraries and the Student Center are published elsewhere in this issue. Regular university schedules will resume Monday.

**Job Club to be featured**

The Job Club will be featured on "Page from a Newsman's Notebook," a short WQLR-FM program with Patti Martinson, Monday, at 2:30 p.m. Saturday, Joa Jurwak, former Job Club member and a newswriter in the News Service, will be Martinson's guest.

He suspects that the paintings probably are historical records, rather than decorations, and thus could be the forerunner of a written language in India. Dwarikesh, keenly interested in the linguistic aspects of the find, said he believes some of the abstract drawings may be ideographs and part of the prehistory of language and the origins of writing in India. He observes that considerable research and future study of photos being taken of the paintings may determine if these paintings are related to the early writing system of India. Dwarikesh holds M.A. degrees from Agra and Calcutta Universities in India, and a Ph.D. in linguistics from the University of Chicago. Author of more than a dozen books on Hindi literature and linguistics in India, a collection of his poems currently in press is being translated into English.

**Harvard economist to speak Wednesday**

A former editor of the Quarterly Journal of Economics and member of the board of editors of the American Economic Review, Richard A. Musgrave, Burttark Professor of Political Economy at Harvard University, will give a free public lecture at 8 p.m. Wednesday, in Krauss Hall, Room 3770, on the topic "Are Budgets Too Large?"

Recognized as one of the world's leading scholars in the field of public finance, he is president of the International Seminar in Public Economics and honorary president of the International Institute of Public Finance.

At 3 p.m. that day in Krauss Hall, Room 3760, he will conduct a seminar for faculty, graduate students and undergraduates majoring in economics, titled "Technical Problems in Analyzing Budget Size." The lecture is sponsored by the Department of Economics.
1,200 signed up for jog-a-thon April 12

More than 1,200 runners have been registered for the Midwest's first jog-a-thon to take place at Kanley Track Saturday, April 12. A goal of 2,000 runners has been set for the affair, which is raising funds for the improvement of athletics, intramural and recreational facilities on campus. The better than most of the registrants are students. The responses on campus has been better than any of the jog-a-thons that have taken place, and I'm excited about the involvement the students have shown," says coordinator Tom Tallman. "Even though the response so far has been good, we encourage anyone from the campus and Kalamazoo communities to jump on the bandwagon and participate."

Group registration has accounted for most participants, with 42 organizations signed up to date. Groups taking part in the jog-a-thon can help their own causes as well as Western's, as they take half the money raised after expenses.

Bronc athletics teams will take part in a special jog-a-thon session on Kanley Track Monday. Other runners will participate over a five-hour period on April 12.

Registration and pledge forms can be obtained through the athletics department offices in Gary Center, the alumni relations office or jog-a-thon headquarters, A-308 Ellsworth Hall. More information may be obtained at 3-8772.

Meetings Monday on TIAA/CREF changes

Meetings to explain any changes in retirement benefits with planned shift by TIAA/CREF to so-called "unisex" mortality tables are scheduled for 1 and 3 p.m. Monday in Room 158 of the Student Center.

A representative of TIAA/CREF (Teachers Insurance and Annuity Association/College Retirement Equity Fund) will be present. Mainly, those with questions can call the staff benefits officer in personnel at 3-1650.

TIAA/CREF is in the process of changing to "unisex" mortality tables for determining retirement benefits. The new merged gender or unisex mortality tables would consider age—buts not gender—when determining monthly annuity benefits.

This will mean that men and women of the same age would receive equal monthly benefits for equal premium paid. Prior to the change, TIAA/CREF will inform and explain specific changes to each participant of the program.

However, those interested in meeting with and hearing about the changes from the TIAA/CREF representative should plan to attend one of the sessions scheduled on the topic Monday.

Annual Senate dinner scheduled for April 10

The annual dinner meeting of the Senate will begin at 5:30 p.m. Thursday, April 10, in the Student Center, west ballroom, after a 5:30 p.m. social hour in the International Room there.

After the dinner, the 1979-80 Senate will conduct a short meeting following by a taped mock interview. The three executive board members and members of the new Senate's councils will be on hand to record the proceedings to be considered for publication in The Western News publication.

The program is designed to enable new clerical staff or those who intend for new clerical staff or those who have not attended in the past. All faculty and technical staff members are invited to attend. However, permission of the supervisor is required for employees to be away from their duties during nearly 18 hours. The personnel department asks that employees indicate their interest in attending the seminar by telephone at 3-1650 or by completing a registration form found in the back of the student employment and development catalog and returning it to personnel through campus mail.

Job Club helps students find employment

Just mentioning the word "interview" to a novice job-seeker is apt to create sweaty palms.

However, nearly 20 students and alumni currently are learning to keep their palms dry and to plan and implement effective job searches with the help of two placement counselors and a new program here called the Job Club.

Carolyn Wilson-Garrison and Merle Lau, the Job Club leaders, estimate that "nearly 80 percent of job openings are never widely advertised; therefore, the greatest number of jobs are locked in the "hidden job market," which Job Club participants are taught to uncover and investigate.

The Job Club, which meets weekly, also functions as a support group where members can vent other aggravations and disappointments or exchange helpful job hunting tips and experiences.

The club provides group support, role-playing, a structured learning situation, mutual review of resumes, and shared job leads. The unique twist at Western is to include a behavioral contract and videotaped interviewing session.

The behavioral contract system insures that people carry out the prescribed tasks," Lau explains. Individuals set their personal goals and deposit a sum of money. At each Job Club meeting members receive small refunds for fulfilling the criteria of their contracts.

Videotaped interviewing sessions provide valuable feedback for club members. Some typical and difficult questions are posed to participants in telephone simulation interviews.

Students and alumni interested in joining future Job Clubs may phone placement services, 3-2730. One has been scheduled for the spring session, Thursday afternoons, May 1 to June 19.

Campus watch...

March 24 to March 30

Sunday afternoon a visitor to Lawson Ice Arena reported that clothing and jewelry valued at $1,417 was stolen from the locker room while he was skating.

University police are investigating a theft of $272 in sweatshirts and jerseys from the bookstore. The theft of a $140 leather jacket was reported to university police by a visitor to McCracken Hall Thursday. In five separate thefts from the Gary Center, property and cash valued at $670 was stolen from lockers. Faculty, staff and students are encouraged to use the small security lockers, located in the big gym, to secure valuables.

A resident of "K" unit of Elmwood Apartments was issued a citation for disturbing the peace early Sunday morning.

Jobs for arts graduates

Two members of the Placement Services staff, Chet Arnold, director, and Carolyn Wilson-Garrison, will discuss "Careers for Arts and Sciences Graduates" on the Forum radio program Wednesday. The program, produced by the College of Arts and Sciences, is broadcast at 9:30 a.m. and 8:30 p.m. on WMUK-FM (98.1), the university's public radio station.

Alcohol lecture tonight

Thomaisa Berkman, representing the National Institute on Alcoholism and Alcohol Abuse (NIAAA) in Rockville, Md., will lecture on "Experimental Approaches to Alcoholism Recovery" at 7 o'clock tonight in the Student Center, Room 306.

Western News

Western News (USPS 362-210) is published by the Collegiate Information Services, 601 Busch Hall, Guides, Kalamazoo, Mi. 49008, on Thursdays during the fall and winter semesters, except during examination and vacation periods. One-year subscription rate is $4.00. First-class postage is paid at Kalamazoo, Mich.

Western News is distributed without change to any faculty, mem-

bers of the Parents Association and other friends of the university who have paid the local subscription rate. Items to be considered for publication should be submitted to the Office of Information Services, 601 Busch Hall, by noon Tuesday of the week of publication.

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Questions and answers about the changes from the TIAA/CREF representative should be addressed to the Job Club, in Room 158 of the Student Center.

Western News
Job Openings

This listing is being posted by the personnel department for regular full-time or part-time employees. Applicants should submit a job opportunities application during the posting period.

HA-HD clerical positions are not required to be posted. Employees may register in the personnel office for assistance in securing these positions.

Counselor, Co-Cordinator, E-19, 80-096, continuing education, posted 4/24-4.

Residence hall advisor, E-69, 80-097, residence halls, posted 4/3/40.


Radio announcer, HI, 80-099, WMUK, posted 4/3/41.

Secretary support, HF, 80-100, libraries, posted 4/6-41.

Residence hall advisor, E-10, 80-101, residence halls, posted 4/3-41.

Assistant nurse, continuing, 80-102, transportation technology, posted 4/3-41.

Fashion show featured for University Dames

A fashion show entitled "All Things Bright and Beautiful" will highlight the spring luncheon of University Dames at noon Saturday, April 12, in the west ballroom of the Student Center.

In addition to the fashion show, presented by Jacobson's, retirees will be honored during the program. Tickets are $4.50 each and may be ordered from Shirley Goodridge, 917 Lynn Ave., Kalamazoo. The deadline for reservations is Tuesday.

THE WINNERS—Back row, from left, are Tom Cooper, Jim Kirklin and Ed Ryba, engineers; Fritz Seegers and Pamela Rups, graphic artists; Eli Segal, sound editor; Bill Halsey, Pat Merz, Mark Sahlgren and Richard Atwell, musicians. From row, from left, are poets Herbert Scott and John Wood; producers/director Mark Spink, creators Martin Grossman and Frank Jamison, producers/director for one of the programs; Kasti Sandhu and John Provancher, cameramen. Spink, Grossman and Woods accepted the award at a banquet last week at the National Press Club in Washington, D.C.

Major award to DIC for series on regional poets

The Division of Instructional Communications (DIC) was a winner in the 1980 Ohio State Awards competition given by the Institute for Education by Radio and Television. The university's entry in the Performing Arts and Humanities category, "Poets In Their Time," four-half-hour television programs presented on WGVU-TV, Ch. 38, Allendale, was produced under a grant from the Michigan Council for the Arts.

The poets featured were English department faculty members Herbert Scott and John Wood; Howard Norman, now teaching at Boston College; and former area resident Carolyn Forche, now at the University of Virginia. The series was created by Kalamazoo writer and editor Martin Grossman and Frank Jamison of the university's Office of Television Services. R. Mark Spink was producer/director of three of the programs; Jamison did the other.

The series, two years in production, was shot originally on film in over 30 locations. The cameramen for the series were John Provancher and Kasti Sandhu. Eli Segal was the sound mixer and editor. Video engineers were Jim Kirklin, Ed Ryba and Tom Cooper. Graphic art was provided by Fritz Seegers and Pamela Rups. Music for the series was composed and performed by the members of the Sweet Corn String Band and Rob Patience.

For 41 years the Ohio State Awards have annually recognized meritorious achievement in education, information and public affairs broadcasting. Entries represent the best programming of non-commercial broadcasters and production agencies from the United States, Canada and as far away as Germany.

Millier Auditorium and its ticket office will be closed Good Friday through Easter Sunday, beginning at 6 p.m. Thursday and re-opening at 10 a.m. Monday. Season tickets for the 1980-81 International Concert Series are now on sale, as are tickets to Gilbert and Sullivan's "H.M.S. PINAFORCE," which will be presented at 8 p.m. Wednesday.

April 11 is the registration deadline for the annual flight instructor refresher course that will be April 25-27 at the Holiday Inn Expressway. It provides an opportunity for flight instructors to upgrade or renew certification, as well as meet requirements for chief flight instructor refresher course participation. For further information, persons may call 3-8600, Division of Continuing Education.

Peter Renstrom, political science, was elected president of the Faculty/Staff Bowling League at the organization's annual banquet Friday at the Portage House. Other officers are: Vice president, Sandy Derby, physics; secretary/treasurer, Tom Sabel, data processing; and sergeant-at-arms, Cheryl Hameleen, payrolls. The team trophy was presented to the Misfits, Lou Grams, Sue Grams, William Appel, Allen Chase, Robert Eodiak, Jerry Yeongblood and Lloyd Widerberg.

Emeriti members of the university community are invited to meet in the faculty dining room of the Student Center for Sunday dinner. Emeriti dine together at the center on the first Sunday of the month.

The Faculty Women's Club annual spring luncheon will be at 12:30 p.m. Saturday, April 26, in the President's Dining Room of the Student Center. More information will be provided to members later.

George Wellman of Smith and Klein Research Laboratories, Philadelphia, Pa., will give a free public talk on "Cimetidine—The Role of the Process Chemist" at 4 p.m. Monday, in McCracken Hall, Room 1080. The lecture, to be preceded at 2:30 p.m. by coffee and cookies in the same room, is sponsored by the Department of Chemistry. Wellman is a WMU alumnus.

The Sara Swickard Preschool is more than $70 richer, thanks to the Panhellenic Council. The organization donated the proceeds from its recent sweater show put on by Brigadoon of Saugatuck and Monogrammer's Workshop of Grand Haven. Line Black, a Traverse City junior and president of Panhellenic Council, presented the check to Chris Limbocker, director of the school.

Issue 7 of Celery, which publisher works by writers and artists in Southwest Michigan, is available in bookstores and at the English Center. Contributors in fiction include Arnold Johnston, Katherine Lampshire, Mark Shelton and Mary Burke; in poetry, Herbert Scott, B. J. Bixby, Cynthia McPortland, Emily Davies and Lampshire; and in graphics, Chuck Pell, Berdina Grimm and Tim Spellman. Celery is edited by the Department of English.

Faculty and staff members are advised not to use the U.S. Postal Service for mail intended for the campus chapter of the AAUP. Campus mail makes that delivery.

Faculty, staff notes ...

Kyo-talk Sung, social work, co-authored an article titled "Family Planning Education for Adolescents" in the new issue of the Journal of the Michigan Association of Secondary School Principals, along with Wenda H. Jobe of the Michigan Department of Education—Leslie Leighinger, social work, chaired a round table discussion on "Core and Specialization: Design and Issues in Graduate Social Work Education" and co-authored a paper on that subject with Raymond A. Seegmiller, at the annual program meeting of the Council on Social Work Education conducted in Los Angeles. Sung's follow-up work, which she chaired an authors forum on "Educating for the Public Social Services" at that meeting.

For 43 years the Ohio State Awards have annually recognized meritorious achievement in education, information and public affairs broadcasting. Entries represent the best programming of non-commercial broadcasters and production agencies from the United States, Canada and as far away as Germany.

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Bronco Sports

Raising its record back above the .500 mark and playing up to its potential will be goals for the western Michigan women's tennis team, which plays a pair of matches at Bowling Green, Ohio, this weekend. On Friday, WMU faculty member Grant Green will then take on Ohio University on Saturday.

A showdown of three of the top softball teams in the Midwest is set for this weekend at Central Michigan University. Invitational Friday and Saturday will be the final winter semester activity for the golf team. After final examinations, Coach Merle Schlosser's team will join the prestigious Repler Invitational at Ohio State April 18-20.

Outdoor Competition begins for the University of Detroit and field squad Friday and Saturday with the Ohio University Relays in Athens. Coach Jack Shaw's squad is then scheduled to host Ball State at 3 p.m. Tuesday at Kanesy Track in late home appearance of the 1980 outdoor season. Since 1960, the Broncos have won 63 dual meets while losing just twice and tying once.

A 3 p.m. Friday single game and a 1 p.m. Saturday doubleheader against the University of Detroit at Hussey Field will open the 1980 home baseball season. On Tuesday, WMU plays a twin-bill at Michigan. Coach Fred Decker's club is 11-3 after Sunday with a 4-0 shutout of Wayne State.

Fusion poetry and jazz in Knauss Hall program

A fusion of poetry and jazz with a Japanese flavor describes the free public program to be presented at 8 p.m. Tuesday in Knauss Hall, Room 377.

Three artists will take part in bringing together music and poetry of East and West—Guo Yasolstna; post-in-residence poet; Thomas Fitzsimmons, Professor of English and simultaneous translator of Japanese readings; and Mel Schlosser, director of jazz studies and professor, an ethnomusicology, all of Oakland University.

DeLuca works still on display at church

Joe DeLuca, art, has 14 of his works entitled "The Cranes" on display at the Peoples Church, 1738 N. 16th St., Kalamazoo. It will continue until Sunday, April 11.

An exhibit of 11 oil paintings by Kalamazoo artist Mary Hatch is currently on display at the Space Gallery, Kalamazoo Hall, through Sunday, April 18. The paintings represent the mysterious female figures and bird images. The gallery is open weekdays from 9 a.m. to 9 p.m.

The 1980 All-Student Art Exhibition continues through Thursday, April 14, in the lobby and on the mezzanine. It includes oil paintings, sketches, metalwork and sculpture.

Slides, films and various works of art will be used in the free, public lectures at 7:30 p.m. the next two Mondays in Sangren Hall, Room 1104. On April 7, James Cressanathais, art, will present the premier of his art, "Deep in the Desert." On April 14, Paul Robbert, art, will lecture on "Aspects of Hand Papermaking."

Stage productions coming up soon are the comedy, "Hotel Paradiso," at Shaw Theatre at 8 p.m. Wednesday through Saturday, April 10-12, and at 3 p.m. Sunday, April 13, and the touring production of "A Chorus Line," abstracts to an annual concert at 3 p.m. Sunday, April 13 in Miller Auditorium.

CTO appreciation day

luncheon to be April 9

The theme for this year's Clerical/Technical Organization appreciation day luncheon April 9 is "Growing with Appreciation." Formerly called "Bosses Day," the annual event is intended as an opportunity for those at the university to express their appreciation to others by inviting them to the luncheon.

The luncheon begins at 11:45 a.m. in the east ballroom of the Student Center. Magicians will provide entertainment and the menu includes chicken salad supreme.

Reservations are due to the University Center, April 3 to Megan Stearns, business library, CTO president. Approval has been given to extend the luncheon to April 9 to 1:30 p.m. for persons attending.

APRIL

4-5—MFA Art Exhibition, Gallery II, Sangren Hall.

8—11—Mathematics Honors Awards Day colloquium, "Some Applications of Graph Theory in Switching Networks," Fan R. K. Chung, Bell Laboratories, Murray Hill, N.J., 1110 Rood Hall, 4 p.m.; refreshments, math commons room, sixth floor, Everett Tower, 3:30 p.m.

8—11—Tree-planting Ceremony, in memory of Bryna Graff, WMU faculty member and counselor, Whitcomb Ride, east entrance of Henry Hall, facing Sangren Hall, 10 a.m.

8—11—Physical Science Colloquium, "Multielemental Analysis of Water Using Proton Induced X-Ray Emission (PIXE)," James Andrus, WMU physics dept., 1110 Rood Hall, 4:15 p.m.; refreshments, math commons room, sixth floor, Everett Tower, 3:30 p.m.

11—Luncheon Discussion Series, "Women in the Draft," faculty dining room, Student Center, 11:45 a.m.

12—Tree-planting Ceremony, in memory of Bryna Graff, WMU faculty member and counselor, Whitcomb Ride, east entrance of Henry Hall, facing Sangren Hall, 10 a.m.

14—17—Physics colloquium, "Multielemental Analysis of Water Using Proton Induced X-Ray Emission (PIXE)," James Andrus, WMU physics dept., 1110 Rood Hall, 4:15 p.m.; refreshments, math commons room, sixth floor, Everett Tower, 3:30 p.m.

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24—25—Annual dinner meeting, Faculty Senate, west ballroom, Student Center, 6:30 p.m.; dinner hour, International Room, Student Center, 5:30 p.m.

25—26—Physics colloquium, "Multielemental Analysis of Water Using Proton Induced X-Ray Emission (PIXE)," James Andrus, WMU physics dept., 1110 Rood Hall, 4:15 p.m.; refreshments, math commons room, sixth floor, Everett Tower, 3:30 p.m.

26—27—Mathematics Honors Awards Day colloquium, "Some Applications of Graph Theory in Switching Networks," Fan R. K. Chung, Bell Laboratories, Murray Hill, N.J., 1110 Rood Hall, 4 p.m.; refreshments, math commons room, sixth floor, Everett Tower, 3:30 p.m.

27—28—Annual dinner meeting, Faculty Senate, west ballroom, Student Center, 6:30 p.m.; dinner hour, International Room, Student Center, 5:30 p.m.

28—29—Mathematics Honors Awards Day colloquium, "Some Applications of Graph Theory in Switching Networks," Fan R. K. Chung, Bell Laboratories, Murray Hill, N.J., 1110 Rood Hall, 4 p.m.; refreshments, math commons room, sixth floor, Everett Tower, 3:30 p.m.

29—30—Annual dinner meeting, Faculty Senate, west ballroom, Student Center, 6:30 p.m.; dinner hour, International Room, Student Center, 5:30 p.m.

1—4—Art exhibit, "Japanese Flavor" describes the free public program to be presented at 8 p.m. Tuesday in Knauss Hall, Room 377.

1—4—Mathematics Honors Awards Day colloquium, "Some Applications of Graph Theory in Switching Networks," Fan R. K. Chung, Bell Laboratories, Murray Hill, N.J., 1110 Rood Hall, 4 p.m.; refreshments, math commons room, sixth floor, Everett Tower, 3:30 p.m.

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