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Montana Kaimin, November 10, 1972

Associated Students of the University of Montana

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Art Dept. may give students voice in decisions

A new proposal regarding student participation in faculty meetings was revised yesterday by the Advisory Council of Robert Kiley, dean of the School of Fine Arts, ac cording to Gabrielle Prandoni, graduate student in art.

The Council had proposed last week that students be allowed to attend, but not participate in all faculty meetings except those specifically dealing with personnel decisions. Prandoni said the new proposal would be more in the student's favor but she did not elaborate. The new proposal will be presented to art students for approval today at noon in Fine Arts Building, 401.

Hook writes, retracts letter to editor

Walter Hook, senior faculty member of the art department, yesterday submitted and later retracted a letter to the editor of the Montana Kaimin in response to Arnold Cherullo's advertisement in Wednesday's Kaimin. The ad concerned Hook's contract renewal evaluation of Cherullo.

When asked why he retracted the

IFC accounts closed to Kaimin

Members of the now inactive Intrafraternity Council decided last week not to allow the Montana Kaimin to review IFC books to determine the amount of money that former IFC president Clark Hanson charged to IFC accounts for use in personal matters.

The members, representing five campus fraternities, said that since no University money was involved in the incident, the matter is one that concerns only IFC.

Ken Fiester, assistant dean of students, said that Hanson has agreed to repay the debts in quesletter, Hook said that Robert Kiley, dean of the School of Fine Arts, requested that individual faculty members make no comment about the matter.

Hook said that a "broad statement" about the ad would be made later by the department.

Cherullo, assistant professor of art, placed the ad, which included a copy of Hook's evaluation of Cherullo's teaching abilities, in the Kaimin to protest what he called an unfair system of evaluating junior faculty members.

Under the present system used by the art department, the seven senior faculty members of the department evaluate the junior faculty members in a closed meeting and make their recommendation to the dean. Senior faculty members are those who are full professors or associate professors and usually have tenure.

The senior faculty met Wednesday night to decide on the Cherullo recommendation and members refused to comment on the outPrandoni and Krank Kalanick, senior in art, sent a memorandum to Kiley on Nov. 6, criticizing the Council's first proposal.

"It is evident that the student's position has only improved in so far as he can now sit mute in the faculty meetings and listen to the decisions which effect their education," the memorandum

The memorandum also said representatives of the art department will approve the Council's recommendation only if the students are allowed to express their opinions on pertinient matters in faculty meetings.

UM pre-registration to be Nov. 20-22

Pre-registration for Winter Quarter, 1973, will be Nov. 20-22. Students will register, according to the first letter in their last names, at the following times:

8 a.r 1 p.r	20 m.—12 a.m. m.—5 p.m	 -Q -L
	21 m.—12 a.m. m.—5 p.m	
	22 m.—12 a.m. m.—5 p.m.	

Packets can be picked up and returned to the University Center ballroom Nov. 20-22, but after these dates they must be turned into the 360 series rooms in the

Metcalf finds strength in cities, Shoup wins timber area vote

By Don Larson

Montana Kaimin News Editor

Democratic Sen. Lee Metcalf can thank his lucky stars and colleague Sen. Mike Mansfield for his reelection to a third term.

news analysis Metcalf, who won a 11,950vote majority over Republican challenger Henry Hibbard, was ap-

parently helped by Mansfield's last-minute campaigning in Montana's metropolitan areas.

Metcalf's victory came from the city vote. He garnered a 4,500-vote majority in Missoula County and almost a 7,000-vote majority in Silver Bow County (Butte). Also, he captured 2,000 more votes than Hibbard in Cascade County (Great

Metcalf also did surprisingly well in Yellowstone County (Billings) where he won 19,639 votes—only 81 less than Hibbard. Yellowstone County has traditionally been a Republican stronghold in Montana. Metcalf's in-road here, enhanced by an appearance Nov. 1 by Mansfield, probably made the difference.

Hibbard, on the other hand, won a better geographic representation in Montana than Metcalf. In addition to most of the eastern Montana farming communities and timber-oriented western Montana counties, Hibbard won in metropolitan Lewis and Clark

(Helena) and Gallatin (Bozeman) counties. Unfortunately for him, his victories in these counties were not enough to offset Metcalf's in Butte, Missoula, Billings and Great

Hibbard carried 30 of 56 counties. most of them rural and sparselypopulated. He clearly won the favor in counties which have substantial timber industries. Hibbard beat Metcalf in Ravalli, Lake, Sanders and Flathead countiesall timber-oriented.

But while the timber vote did little for Hibbard, it apparently was what Rep. Dick Shoup needed to retain his seat in Congress.

Shoup, a Republican, beat Democrat Arnold Olsen by more than 13,000 votes for the Western District congressional seat.

Shoup won a 2,000-vote majority in Missoula County and made strong showing in all the counties with timber-based economies.

Of 23 counties in the Western District, Olsen managed victories in only four: Deer Lodge, Lincoln, Mineral and Silver Bow. He won a 4,000-vote majority in Silver Bow County, traditionally favorable to Democratic candidates. It was not, however, enough to wipe out the overwhelming favor Shoup found in Lake and Lewis and Clark counties. Shoup won a 2,000 vote majority in Lake County and more than a 3,000 vote majority in Lewis and Clark County.

UM non-student employes disagree on need for unionization

Attempts to organize non-student office secretaries, physical plant workers, and residence hall custodians at the University of Montana by the Retail Clerk's Union and the Montana Public Employees Association (MPEA) have pleased some of the workers and

Office secretaries generally believe that some form of representation is needed in order to secure higher salaries. "We're not getting any money right now,' one secretary said. "It's a shame that we need representation, but we need it," said another. we need it," said another. However, there was disagreement on whether to join MPEA or the Retail Clerk's Union.

About half of the dozen secretaries interviewed said they felt the union could do more for them than MPEA. They said that the union's proposals for a ratified contract and collective bargaining were more definite than the MPEA proposed "staff senate," which is designed to present employee complaints to the university.

"The university wouldn't have to pay any attention to the staff senate," one secretary said. She added that a union contract would binding on the university. Another secretary said that the MPEA proposals said "a lot about nothing." Several secretaries also mentioned that they think the union has more experience in representing employes.

About six of the secretaries, however, said they thought that the MPEA's staff senate would represent them better than the Retail Clerk's Union. Some fear that a union contract would be too binding, by not allowing them to present their grievances to the university on a continual basis.

One secretary said that the union would not pay attention to the amount of money that the legislature would allot for their salaries.

Most of the dozen residence hall custodians interviewed said they did not need to be organized by the

Retail Clerk's Union. Most said that their salaries are sufficient because of a recent raise, and that job security would be the only good reason for unionization. However, the majority of the custodians said that they would have no other choice than to accept unionization if it was approved by the majority.

One summed up the general feeling of all the custodians by saying, "Those unions can be rough customers sometimes.

The physical plant workers the

Retail Clerk's Union is hoping to organize are mostly night janitors, according to physical plant director J.A. Parker. He said that other employes of the physical plant are covered by numerous craft unions.

Most janitors contacted said they have little need for a union. A few said that a union is needed for job security, but that salaries are high enough to make a union unnecessary. Those that said that a union is not needed said they would accept unionization if other workers wanted it.

Food service employes favor MPEA to union

Most non-student University of Montana Food Service employes do not want to join the Retail Clerks Union, but favor remaining in the Montana Public Employes Association (MPEA), a non-union organization of all Montana public employes.

Representatives of the MPEA and the Retail Clerks Union met last week with the UM non-academic employes to compete for the right to represent them.

For the last two years food service employes have not received authorized raises after their first and third years of employment because of lack of funds, Carson Vehrs, food service director said.

Last year the only raise these em-

ployes received was the five per cent cost of living raise given to all UM employes, Vehrs said

Vehrs said two years ago food service cooks were given a ten per university and union wages.

When asked about their opinions on unionizing, several cooks said they did not know anything about the union. Only a few said they had attended the organizational meetings.

A Montana Kaimin reporter talked with about 25 food service employes yesterday. One food service cook said, "I don't think the union can do anything more for us (cooks) than the MPEA because

the legislature appropriates our wages through funding. We should give them (MPEA) a chance before we go changing to the union.

Several employes agreed with her.

One cook said she supports the MPEA because about six years ago it helped in getting sick leave, paid holidays and group insurance for public employes.

One employe said he is against unions, but might consider voting to join the clerk union because the MPEA has not done anything about low interest rates on retirement funds.

The food service employes wished to remain anonymous.

Union petitions University employes

The Retail Clerk's Union is circulating petitions among University of Montana nonacademic employes in order to gain recognition from the Montana Board of Regents, according to union representative Tom Adams.

Adams said that the union is trying to organize about 500 non-student University employes. He said if about 250 of these workers sign petitions or authorization cards supporting the union, the union will seek recognition from the Board of Regents to start contract negotiations with the University. Adams said there should be enough signatures for this within two weeks.

An employee's signature on a petition or authorization card does not obligate him to join the union, Adams added.

An employe is a member of the union, he said, only when a contract is ratified with the University.

Adams said the union wants to organize food service workers, physical plant employes, office secretaries, custodians and janitors. He also said that he hopes to eventually organize Health Service nurses

Food Service student employes are not involved attempts, Adams explained. He said that student jobs are too temporary and have too high a turnover rate to be considered.

He said that the union will meet soon with employes who have signed petitions to discuss the benefits sought by the employes. He said that the Retail Clerk's Union eventually intends to bargain for higher employe wages, state insurance benefits, better working conditions, longer vacations, fair discharges, and more promotions.

STUFFING THE VOTERS

We've heard talk these few days after the election about shady practices of precinct workers Tuesday. Specifically, we've heard that election officials, in certain cases, made every attempt to get voters to use Vote-O-Matic punch cards instead of paper ballots.

The theory behing this being: a) the California firm that manufactures Vote-O-Matic machines and punch cards wants the county to buy truckloads of the machines; b) county election officials want to convert to the punch-card system because it's easier to use (county officials being the lazy sort anyway); c) therefore county officials Tuesday were trying to make a case for the purchase of the machines by forcing the electorate to use the things: "So many voters preferred the machines rather than paper ballots" they will say at machine-purchase time.

While this is a rather wild claim, it is not completely unreasonable. Missoula County has had in the past unpleasant experiences both with the machines and with its election officials.

Indeed, some less-than-pure procedures did happen: this writer, for instance, strolled into his westside schoolhouse to vote and was greeted at the entrance with a sign, "Vote-O-Matic cards or paper ballots on request." He walked into the polling room, signed his name to the registration tally and looked up to see a punch card shoved in his face. He asked for a paper ballot.

Another Montana Kaimin staff member spent Tuesday afternoon driving voters to polling places. He saw several instances of paper ballots ignored and unpacked under precinct tables, the voters of that particular polling place apparently forced to use punch

If indeed the above-mentioned efforts were made, it shows a lack of honesty and ethics on the part of election officials. However, we do not now intend to assert that such efforts were made—the experiences of two Kaimin staff members plus assorted stories from elsewhere do not present a solid case.

The Kaimin is making attempts to find out if indeed such efforts were made. If you had a similar experience, let us know-243-6541 is our telephone number, and our offices are on the first floor of the Journalism Building.

We will be reporting our findings, positive or negative.

C. Yunker

Sullivan's reconsideration urged

Editor: So recent has our institution adopted a system which gives the student more freedom to learn from a broadly selective curriculum such as ours. I refer to the P/NP system. Its function seems to have served well its conceived intent by wide student use. This newly-devised system has achieved a desirable place for an institution professed to be of higher learning simply because students have crossed waters of knowledge never before bridged in our curriculum.

Therefore, if we continue to pride ourselves as an institution devoted to the development of students we should not on one hand offer the incentive and on the other suggest the practice as undesirable or of a lower achievement by reducing its merits to mediocrity equalling that of a grade "C." We should recall that both student and faculty work jointly for this achievement.

If Robert Sullivan chooses to evaluate the student aspiring to seek a law degree by the grade "C" when taking P/NP scales, it is arbitrary. Besides destroying the student's incentive for broadmindedness, it also measures unfairly one's abilities in such special areas of study. Such a grade would serve as a poor indication of one's abilities or study habits, as Sullivan might think

Robert Sullivan's recent undercutting of this new grading system shows a contempt for broad student interest and a premature measurement of one's abilities to perform satisfactorily later in law school. So, I urge he reconsider his recent interpretation of the "pass" citation as a lower achievement to a "C" status.

Clay Collier ASUM Vice President

Give Your Budget A LIFT! Buy-Sell-Trade through montana KAIMIN CLASSIFIED ADS

James Morton returned Wednesday from where he went Tuesday. Pueblo (Colo.) Star-Journal

Alternate course for Cherullo suggested

Editor: I do not know Arnold Cherullo, Walter Hook or any particulars of the conflict in the Department of Art; however, I would like to offer the following general comments.

 We have a faculty appeals committee which has earned a reputation for objectivity and fairness. It would seem that this committee is far better equipped to handle this complex situation than the forum proposed by Cherullo in

his Montana Kaimin advertisement

· The principle that a department should make a thorough, open evaluation of junior faculty before offering tenure is an important one. While this principle has probably been neglected here in the past, it is to the advantage of future students that it not be neglected today.

George Woodbury associate professor, chemistry



opinion

A 'climate of self-righteous theft'

Editor: Last year, general humanities staff was able to procure expensive phonograph and audio-visual equipment for LA This room, in effect, has become the General Humanities Room. The rationale behind the installation of this equipment was to extend the Humanities course content from literature into the areas of music and the visual arts. The room was finally prepared for use this fall. The phonograph had hardly been touched.

Several days ago, an instructor went to class to find the phonograph speakers stolen. Speaker thefts are nothing new on campus-the music department has had to practically bolt itself to the ground; God knows how many books are stolen annually from the library, and art students for some years have had their own work stolen from the department

Let me say first of all that I do not know who stole the speakers, but that it is not out-of-hand to suspect that it may have been a student or students. I say this with caution, of course, because it might as easily have been a faculty member or professional thief for all the evidence we have. But the question of the thief being a student is a strong possibility due to the climate of self-righteous theft that exists here on campus.

It has been quite fashionable and even a kind of revolutionary chic the last few years to "rip off the establishment." I suppose there is a chance such a rationalization might lurk behind the speaker Of course, it is not revolutionary, but a typically selfinterested, antisocial act that regards the dollars of unemployed and poor students and their parents as something the thieves have the subjective right to tinker with on whim.

Who the hell do they think pays for this equipment? It is money from BIA grants for Indians, the GI Bill, students, semi-employed students and the savings parents putting their children through school. That's who paid for the stolen speakers, and who will have to pay for new ones if we're able to get them.

So the ripoff is really a parasitic act; the act of an ultra-individualist who is self-deceptive or stupid enough to imagine parasitism as revolutionary subversion.

A thief or thieves have stolen your money in taking these speakers, apart from interfering with the educational process. If you know who did this, get them back. And if whoever took them honestly imagined themselves as a daring Che Guevara, realize that you

came closer to the anti-social acts of the Watergate crew.

It chills my bones to know that some people who imagine themselves "radicals" make a cult hero of the 'Godfather' - the archcaricature of the self-interested and crooked capitalist and antisocial thief. It is a rather dreary opening to the Seventies.

Let me only add that I hope the speakers were not stolen by students. I would feel much better is I knew it was a professional criminal

The speakers are AR-2ax systems. Their serial numbers are IMS 1583-2hum and 1583-3hum, Dual 1219-Su AV17985.

Jim Todd assistant professor,

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Films

- Butterflies are Free. A young man who is blind tries to make it on his own and finds other people need help, too. (PG') plus a special showing tonight at midnight of Tom Jones Rides Again (X') also, a Sunday matinee Wings. "Best pic-ture of the year 1927" with Gary Cooper and Clara Bow. (Wilma)
- Harold and Maude. "A joy," said Judith Christ, New York Magazine, about this comedy of the relationship between a 79-year-old woman and a 20-year-old boy. (PG') and Desperate Characters. Shirley MacLaine in a story of the hassles of urban living, including such problems as the obscene phone call and burglar alarm. (R' Golden
- Slaughterhouse Five. Based on Kurt Vonnegut's novel. Billy Pilgrim survived the deadliest day on earth to enjoy the sexiest night in outer space. Rex Reed, N.Y. Daily News, called it, "One of the most daring, original, and totally fascinating pictures ever made. (R'
- · Joe Kidd. Clint Eastwood as the loner caught between the conflict of landowners and protesters. (PG') plus Silent Running. A botanist attemps to salvage earth's last remaining forest. (G') and starting Sunday, a performance by La Scala Opera of Milan of La Boheme, the sad, romantic story written by Puccini about the eternal love triangle. (Roxy)
- · The Reivers. The film version of William Faulkner's novel with the growing up. Cool Hand Luke. A movie starring Paul Newman on a chain gang. and The Hired Hand. (PG' Go West)
- The House of Fear. Basil Rathbone as Sherlock Holmes on Saturday night, and Sherlock Holmes Faces Death Sunday night in another detective thriller. (Crystal)

Galleries

- Turner Hall-A piece by New York sculptress, Nancy Holt called The Locater" is on exhibit and films of the sculpting process are being shown. Also, five or six Montana University undergraduates and graduates are showing their art work
- University Center—Oriental art including samurai swords, helmets, hari-kari daggers, opium pipes, and Chinese embroidered garments are on display. The showing is sponsored by the Far East Association for Understan-ding Oriental Art and Cultures.
- Magic Mushroom—Showing the oils and acrylics of Arizona artist, Mae Baugh, who has several paintings of Montana.
- Rosenblum—A photographic display by Mary Cook and Bob Henry of Missoula including portraitures, nudes, and pictures of old buildings.

Woman wants work

A Colorado woman is filing suit against the State Highway Department, alleging the

artment won't let her work in highway tunnels under construction simply because she is a woman.

Janet Bonnema, a highway engineer, wants to be transferred from her office job to a job in a tunnel. She claims the department is dragging its heels on a possible transfer because-the men working in the tunnels would walk out if she were allowed underground.

Department officials deny that Bonnema has been refused a transfer because of her sex.

AP in brief

The United States joined its principal World War II allies yesterday in acknowledging there are two Germanys and that both should be seated in the United Nations. The Big Four in a declaration issued simultaneously in Washington, London, Paris and Moscow announced they will support the membership applications of both states. The Big Four announcement came a day after East and West Germany had signed a goodwill treaty

The United States has begun assembling a large mine sweeping force to remove American mines from North Vietnamese waters once a cease-fire agreement is signed. Pentagon sources said yesterday airborne minesweeper units and the helicopter carrier Inchon have been ordered from their base at Norfolk, Va., to join naval mine sweepers already in the Pacific with the U.S. 7th Fleet.

The Air Force said yesterday it is satisfied with its F-111 fighter bombers and has no intention of grounding the plane despite three unexplained losses over North Vietnam. The Air Force was replying to a suggestion from Sen. William Proxmire, D-Wis., that the \$15 million plane be removed from combat pending an independent evaluation of the F-111's structural and operational soundness.

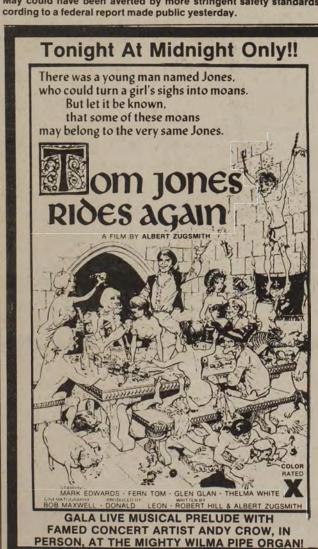
President Nixon says there will be no tax increases to solve domestic problems in his second term. He adds that "nothing could be further from the mark" than the suggestion he will advocate massive new social programs. Nixon made the remarks in an interview with the Washington Star-News published yesterday.

Israeli warplanes carried out raids across the Syrian frontier twice yesterday, the Israeli military command reported. Israeli planes struck first at two suspected Palestinian guerrilla bases along the cease-fire line in the Golan Heights. Other Syrian targets included one SAM missile site, four Syrian army forward positions and a number of artillery concentrations on the frontier. The Israelis said their planes returned safely but Syrian communiques over Damascus radio claimed four Israeli planes

A district court judge in Denver temporarily restrained the Denver Olympic Organizing Committee yesterday from notifying the International Olympic Committee that Coloradans have rejected the 1976 Winter Games. The temporary order was issued on a request of three individuals identified only as Churchill Blackwell, Don Hermansen and James Disney. The three maintained that Colorado citizens Tuesday voted only on whether further funds should be spent on the Olympics, not whether they should be held here. The order came just hours before the Denver committee was to meet and draft a formal notice to the IOC that Denver was giving up the 1976 event.

Jean Westwood, Sen. George McGovern's handpicked head of the Democratic National Committee said yesterday she will resist any efforts to oust her from the job. "Jean Westwood is alive and well and intends to remain on the job," she told a news conference.

Many of the 91 deaths that occurred in the Sunshine Mine disaster last May could have been averted by more stringent safety standards, ac-



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DOONESBURY









by Garry Trudeau



Woman's role in capitalist society discussed

The three functions of a housewife in a capitalist society are breeders of the next generation of workers, unpaid labor force and consumers, Stephanie Henkin, post-graduate student in medical technology, told the 20 women at the women's liberation meeting last night.

Henkin said a capitalist pays a man who in turn supports his wife, therefore the capitalist gets a "second laborer for the price of

She said the Chase-Manhatten Bank estimated the housewife does 99.6 hours of work a week. Henkin added the housewife makes 75 per cent of all consumer

Women are still paid as emergenmarginal or temporary workers, Henkin said, even though in 1960, 50 per cent of working women were the sole support of themselves or their families and 39 per cent were supplementing the \$3,000 to \$5,000 income of their husbands, according to the U.S. Census Population Reports.

Using June 1969 figures, Henkin said the median income of the white male was \$6,833 and nonwhite male income was \$4,369. In contrast, the white female median income was \$3,254 and non-white female income was \$2,228. The median education of both groups of women was higher than the education of their male counterparts, she said.

The woman of fifty, who finds herself with her life's work apparently finished, children, husband dead, need not give up.

Milwaukee (Wisc.) Journal

Basil Rathbone Sherlock Holmes THE HOUSE OF FEAR rystal's theatre

Henkin said a class society including family, private property, and the state came into being with appearance of a material

Prior to class society, she said,

women were the food producers were developing many agricultural techniques domesticating animals. Children were cared for by everyone and were not the property of their biological parents, Henkin added.

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Grizzlies-Vandals ready to do battle tomorrow

The University of Montana Grizzly football team will wind up the Big Sky part of its 1972 football schedule tomorrow against the University of Idaho Vandals at Moscow, Idaho. Game time is set for 11:30 a.m. MST.

The report from the Vandal camp says they have gotten through the past two weekends without any serious injuries, and they will be fielding a physically sound team against the Grizzlies.

The Vandals were heavy preseason picks to capture the Big Sky Conference championship, but an injury to starting quarterback Rick Seefried and several other key injuries have spoiled the Vandals title hopes. UI presently holds a 2-6 season mark and are 0-3 in conference play.

Although the Vandals have won only two games they have been very tough at home in their New Idaho Stadium. They nipped a powerful Ohio University team 17-14, whipped a big Northern Illinois team 31-13 and lost to University of the Pacific 22-7. The Grizzlies have also shown a strong home field

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edge, and have yet to win on the

Last weekend Utah State bombed the Vandals 51-7 while rolling up 416 yards passing and 122 yards rushing. UI managed only 76 yards rushing and 74 yards passing.

UM Assistant Coach Charley Armey said, "Idaho has excellent speed at running back, a big offensive line and a good defense that is real quick. As for standout in-dividuals, linebacker Rand Mar-quess and defensive end Alofa Lue Tauvaga are very good. Bernie Rembert is a very fast running

Rembert is the Big Sky's second leading rusher with 514 yards on 99 carries. He is averaging 5.1 yards a carry. Rembert has also been troubled with injuries this season, but will apparently be ready to play in tomorrow's

A human interest angle to the game is the return of UM freshman quarterback Van Troxel to his home town. Troxel, who took over as the starting quarterback for the Grizzlies two weeks ago, is the son of Idaho assistant coach Ed Troxel, and he quarterbacked Moscow High School during the 1971 football season.

presently holding a 3-6 season record and conference mark, will play its last game of the season against the University of Tulsa one week from

campus recreation

- Rosters for the Turkey Race are due Nov. 14 in FH 205. The twomile event is open to everyone.
- Volleyball team captains please watch the Montana Kaimin and Establishment for dates and times of rescheduled games

Court one
7:00 p.m.—Student Association vs Sigma Chi
3:00 p.m.—Out of Towners vs Wood Nymphs
9:00 p.m.—SW First Duniway vs Manning's
Marauders

Court two 7:00 p.m.—Snakey K's vs TBA 8:00 p.m.—Royal Zonkers vs Law III 9:00 p.m.—Kyi-Yo Indians vs Jocketts

Tomorrow's Football Schedule

Field two 10:00 a.m.—IVCF I vs IVCF II



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Field three 10:00 a.m.—SPE and Kappa's vs Fups III II:00 a.m.—Haugen's Heros vs Fups I

Tomorrow's Volleyball Schedule

Court one 9:00 a.m.—TBA vs Spiked Punch 10:00 a.m.—Law III vs Beavers

Court two 9:00 a.m.—RA's vs Haugen's Heros 10:00 a.m.—Fup Bombers vs Phi Delta Theta I II:00 a.m.—Fup Chiefs vs Sigma Phi Epsilon

Sunday's Football Schedule

Field two 2:00 p.m.—Sibma Nu vs Law III 3:00 p.m.—Law II vs Teen Angels

2:00 p.m.—IVCF I vs Fups I 3:00 p.m.—SPE and Kappa's vs Fups II 4:00 p.m.—Fups III vs IVCF II

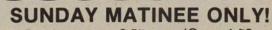
Monday's Football Schedule

Field one* 4:00 p.m.—RA's vs Reds Bar

Field two* 4:00 p.m.—Beavers vs Sigma Chi

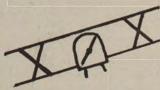
Field three*
4:00 p.m.—Ruptured Albartoss vs Sigma Phi Epsilon

Denotes playoff games



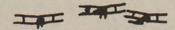
One Performance-2:00 p.m. (Open 1:30 p.m.)

Buddy Rogers Clara Bow **Gary Cooper**



William Wellman's Immortal Film of

The First Academy-Award Winner! Best Picture of the Year, 1927...



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Regular General Admission Prices and Special For Senior Citizens: \$1.00

Showplace of Montana WILMA



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goings on

- The Accounting Club will meet tonight at 8 in UC 360-I,J. Three speakers will discuss Public Ac-Public counting Practice.
- · Inter-Varsity Christian Fellowship will meet tonight at 7:30 at The Poopdeck. Glenn Junkert will speak on "The Problem of Nonsense'
- · A table with information about the Women's Free School will be in the UC mall today from 10 a.m. to 2

- Warm Springs visitation group will leave tomorrow from The Ark at 9 a.m. Everyone is invited. Bring 50¢ for transportation.
- A potluck supper will be held at 6 p.m. tomorrow for registration of the Women's Free School in VC, second floor. Bring food, utensils, a friend and a candle. Registration will continue Sunday from 2 to 5 p.m. at the same place.
- The Wesley Foundation will sponsor a 50¢ dinner followed by discussion with Henrietta Whiteman, director of Indian Studies, Sunday at 5:30 p.m. at the Wesley House. All are welcome.
- Alpha Phi Omega, a national service fraternity, will hold a regular meeting Sunday at 8 p.m. in the UC Gold Oak Room. Interested students are invited. A pledge meeting will be held at 7

CARAS PLAZA

Congratulations! from Taco Johns

- * Larry Stewart
- * Jon Kaps
- * Bill Long
- Ted Solomon
- * Lew LaCosse

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classified ads

Classified advertising will only be accepted Monday through Thursday 9 a.m. to noon and 1 p.m. to 4 p.m. and Friday 9 a.m. to noon. Payment in advance.

(No change in copy in consecutive insertion) If errors are made in advertisement, immediate notice must be given the Montana Kaimin since it is responsible for only one incorrect insertion. First insertion (5 words per line) Consecutive insertions

Deadlines: Noon the day preceding publications

1. Lost and Found

1. Lost and Found
LOST: Wallet in LA building. Identification: Wayne Gravatt. 728-2755 or turn into Kaimin Office, J206. 23-3p LOST: Curriculum guide for kindergarten from a school in Colorado. Reward offered. Contact ASUM offices.

Pool, small silver crucifix. Please call 549-4079. 22-4p
LOST: Black puppy Scottie. Answers to the name of Hastings. Return to 110 Monroe or call 543-5252. 22-2p
LOST: Gold corduroy coat in area of handball locker room. Important keys in pocket. Please return to information desk (UC) or call 728-4539. No questions asked. Reward offered. 21-3p
FOUND: Pair of glasses by Brantly Hall. Identify at Brantly desk. 21-4f
FOUND: One pr. ladies' brown-rimmed glasses. See Zoology Dept. secretary in Room 104 Health Sciences. 21-5p
FOUND: Mey on a keychain with a smile button on it. Found Oct. 2. See Zoology Dept. secretary in Room 104 Health Sciences. 21-5p
FOUND: One pair men's dark-rimmed glasses. See Zoology Dept. secretary in Room 104 Health Sciences. 21-5p
FOUND SOMETHING? Remember it's FREE to put a Found Ad in the Kalmin. 21-3p
LOST: Maroon Bible in ballroom. 549-5241.

LOST: Maroon Bible in ballroom. 549-2241. 20-5p

FOUND: In HS 411 on Oct. 27—a slide rule. See Zoology Dept. secretary in Room 104 Health Sciences. 21-5p

HOW WOULD you like to be a girl's bicycle? 23-1p NOT KNOWING about life. How can we possibly know about death? 23-1p

IS TODAY yesterday, tomorrow or is today tomorrow, yesterday? 23-1p WHAT YOU eat is what you are? 23-1p
HOW WOULD the world look to us if
our sight included other wave lengths?
23-1p

WHY DO you belong to the University of Montana? 23-1p

of Montana? 23-1p
WHAT WOULD it be like without verbal or written communication? 23-1p
COULD YOU be sated by Satan? 23-1p
WHO MADE YOU? 23-1p
SHOULD a person be afraid to die before he has done something for the betterment of mankind? 23-1p
WHERE ARE you in your life? 23-1p
WERE THE election polls at the UC run legally? 23-1p

HOW IS YOUR life related to the Arts

HOW IS YOUR life related to the Arts?

23-1p

INTO WHAT form do you think man will evolve next?

23-1p

ASTROLOGY CLUB meets Tuesday, Nov. 14, Montana Power Building on Broadway, 1.30 p.m.

NEW POETRY at Freddy's: Tao Te Ching by Lao Tzu, Russian Cookery, The Black Mountain Book, Feminist Short Stories, more new Christmas books. Plus — a grand sale on Budweiser, 6-packs \$1.30.

23-1p

GET OUT of the city and smog. There's mountains, clear air, Coors Beer and — for the first time — live music by Dan and Vic, Friday and Saturday night at Lochsa Lodge, Only one hour from Missoula at Powell Junction, Idaho.

23-5p

FACULTY—Give your students a 10 per cent discount on their paperback texts for Winter Quarter. Orders must be received by Nov. 15. Only the first fifty class orders accepted due to shortage of space. Call 728-9964 or better yet, come in to Freddy's Feed and Read and place order at 1221 Helen.

23-1p

JUDO, KARATE, boxing and weight-lifting. Tuition for three months—\$15.

Read and place order at 1221 Heach
JUDO, KARATE, boxing and weightlifting. Tuition for three months—\$15,
204 S. 3rd W. 543-6752. 23-1p
TRY a seafood platter at The Shack,
Oysters, scallops, fish and shrimp included for \$2.50. After 2 a.m. special
is strioin steak and eggs, \$2.50. The
Shack, 223 W. Front.
WERE YOU hassled at the voting booth
and had vote-o-matic cards shoved
down your throat? Did you even have
to ASK for a paper ballot? If so, we're
interested in possible violations of
your rights. Call Larson. 243-6541.
23-1p

PRETTY GIRLS: This contest offered only once a year. Send name, picture, measurements and phone number to 305 Miller Hall. Lucky girl wins big date with the record holder of Miller Hall Bachelor's Club. Contest ends Nov. 22.

Hall Bachelor's Club. Contest ends Nov. 22. 22-2p MAKE \$10-\$20 a day selling Borrowed Times. Pick up papers at Freddy's Feed and Read after noon. 1221 Helen. 22-5c

adlines: Noon the day preceding publication will. 549-2339. 22-2p FULL-TIME leader and assistant needed for fourth grade group at Willard. Call Campfire office. 542-2129. 22-2p OLD PAPERS are available at the Kaimin office every week till Friday. Then they head for the Recycling Center. 21-11f GERMAN SHEPHERD cross, five weeks old to give away. 208 South 5th East. 21-5p.

GORDON LIGHTFOOT — MSU Field-house Nov. 11, 1972, 8 p.m., \$3, \$3.50 door. On sale at ticket office, U of M. 21-3p

BEEN RIPPED OFF? We can help.
Consumer Relations Board. SAC office, UC 104, 243-2183. 6-tfc
PRECNANCY Referral Service. Weekdays 4:30 to 6:30 except holidays. 2431-tfc

days 4:30 6171. 6. Typing

ABC secretarial. Prompt service! 549-0314. 21-23p 0314.

EXPERT TYPING, electric typewriter.
Thesis experience. Will correct. M.
Wilson, 543-6515.

TYPING, experienced. Call 549-7282.
14-tfc

ELECTRIC typing. Fast, experienced 549-5236. 5-30r

BEST Bargain Typing — Professional, term paper, thesis. Experienced, speedy. 728-4946. 1-tfcp 8. Help Wanted

PERSONS interested in teaching evening courses at University Center contact Gary Bogue, Program Coordinator, UC, by November 22. For more information phone 243-2642. 23-5p SOMEONE to do jamitorial work at veterinary hospital and live in. Work evenings, weekends and holidays. Apartment furnished. Contact Pruyn Veterinary Hospital. 22-4c

9. Work Wanted

9. Work Wanted
NEED A SECRETARY? Typing and
editing 50 cents a page. 549-9860. 22-tfc
WILL DO BABYSITTING by hour or
day in my home at 1835 Burlington.
542-2462. 21-3c

10. Transportation

GIRL NEEDS ride to Denver over Thanksgiving. Will share expenses Call Cathy, 243-4706. 23-2p DON'T FIGHT the snow and ice. Go Greyhound, the safe way. 549-2339 22-2p

WANTED: Ride or riders to Billings, Friday. Call 728-3582. 22-2p
GIRL NEEDS RIDE to Minneapolis over Thanksgiving. Call Barb, 728-1761. 21-3p.

Thanksgiving.

COUPLE NEED RIDE to Butte Friday
afternoon. 512 South 2nd West, up21-3p

WERE YOU hassled at the voting booth and had vote-o-matic cards shoved down your throat? Did you even have to ASK for a paper ballot? If so, we're interested in possible violations of your rights. Call Larson. 543-6541

TUTORING in conversational French experienced, \$4 hourly, 728-4920, 20-5p 16. Automobiles for Sale

1962 PONTIAC Hearse w/automati transmission, good condition. See a Gary's Conoco, 2125 S. Higgins. 19-5; 1940 DODGE. Runs, best offer, 549-0183

19-5p
1971 MG MIDGET, 8,500 miles, Immaculately and lovingly maintained by executive. Service record, New Michelin snow tires. Headbolt heater. Call owner, Helena, 442-3961 office hours.
21-6e

CASH FOR CARS. Jim's Used Cars. 1700 Stephens. 6-tfc

17. Clothing

SPECIALIZE in alterations for men's and women's clothing. 543-8184. 7-tfc

18. Miscellaneous

WERE YOU hassled at the voting booth and had vote-o-matic cards shoved down your throat? Did you even have to ASK for a paper ballot? If so, we're interested in possible violations of your rights. Call Larson. 243-6541.

23-19

WESTERN VILLAGE: East Missoula, horses for rent, general consignment auction every Friday at 6:30 p.m. Trading post, buy, sell or trade — open every day, 549-2451. 1-tte

NEED THIRD PARTY to share expenses on three-bedroom furnished home. Laundry facilities, phone, etc. \$60 a month. Includes everything. 543-3093, 21-3p

TIME FOR a break and need some travel? Go Greyhound. 549-2339. 22-2p H & H CUSTOM MEATS. Complete custom meat processing. 1801 S. Ave. W. 549-1483. 17-16p

19. Wanted to Buy

19. Wanted to Buy: Studded snow tires for fourteen inch rim. Also good used cross country skis. Call 543-8666. 21-3p BIG. STUFFED, SOFT, cheap armchair or sofa. Comfort is mandatory, looks are secondary. Would consider renting. Call 243-2793. Ask for Mary. 21-4p MOTOR'S MANUAL, 1946 or older. 549-0183.

20. Wanted to Rent

TWO CO-EDS need house or apartment soon. Call 728-3326. 23-2p

21. For Sale

21. For Sale

BALDWIN PIANO—white antique with gold trim. Large spinet. \$750. Phone 728-3838 weekdays after 5 p.m. 23-1p HAND-MADE ties, doubleknit polyester, wool and cotton. Great gifts for birthdays, Christmas or just because. Call 728-4325. 23-5p USED SKI equipment on hand? Sell as SoS Fair. Bring to First National Bank Saturday 9 a.m. to 6 p.m. 23-1p LOOKING FOR used ski equipment? Buy at SOS Fair. Sunday noon to 7 p.m. 23-1p

Buy at SOS Fair. Sunday noon to 7 23-1p 1949 FORD pickup, \$100. Needs fuel pump — runs good otherwise — spare engine, clutch. 243-5941. 23-3p WESTERNFIELD 12-gauge 3" magnum pump shotgun. Excellent condition. 243-5002. 23-3p

243-5008. YASHICA-D TLR, case, \$35. 542-000

23-5p
HEAD 720 SKIS. 203 cm. Solomon 404
bindings. Geze friction-free sole plate
-very good condition. \$202 value for
\$110. Phone 549-3621. 22-6p
HOOVER spin-dry compact washer. \$40,
543-6071. 22-5p

543-6071. 22-5p
FARFISA ORGAN. Leslie speaker, microphone, all excellent condition. 5422266 evenings. 22-4p
LYLE 6-string Solid-body guitar, \$50.
Solid-body bass guitar, \$50. Lloyds
AM/FM stereo with 8-track and record changer. Call 549-7012 mornings
or evenings, or see at 3320 Bancroft.
22-2p

22-2 21" TV. Works. \$25, 728-2696. 21-3 RCA 24" COLOR CONSOLE. 549-662

STEREO, VOICE OF MUSIC, 40 watt with FM tuner, \$60. Lange compettion ski boots, size 7W, fits size 8 feet, \$60. 549-2012.

DECORATE YOUR PAD! Shelland Sheepdog pupples. Sables, tri-colors, blue merle. Top breeding. Pets reasonable. Three showbreeding prospects. Mrs. Armon Mels, Hamilton. 1-363-1022.

pects. Mrs. Armon sats, 121-4p 1-363-1022. 21-4p HEAD SKIS with Nevada bindings 208cm, men's 11½-M ski boots, both used one season. Remington 3" mag-num shotgun. 549-3441. 20-4p FOR SALE: Fly rod, 8½'. Automatic reel with line, accessories. See Brian, room 208 Miller. 20-4p 30-VOLUME Encyclopedia Americana. 728-4558. 15-10p

HANDMADE chess boards—black wal-nut and maple squares, felt bottom 549-0633.

TWO-BEDROOM house in country to share with one roommate, \$50/month plus utilities. 1-726-3398 evenings. 23-2p

THREE UPPERCLASS women would like same. Own room, large furnished house, \$40. 728-1275. 23-4p
THREE-BEDROOM mobile home. Rent \$150/month or purchase by taking over payments plus small trade. For information contact 728-4885. 22-2p
FEMALE ROOMMATE needed. \$55. per payments plus small trade.

FEMALE ROOMMATE needed. \$55 per month, no utilities. Call 728-3265 after 7:30 p.m. 22-3p ROOMS WITH COOKING FACILITIES. 549-0123. 21-11p

549-0123. 21-119
THREE-BEDROOM, one and a half
baths trailer, completely furnished.
Carpeted, with or without utilities,
furnished. Phone 549-4941. 21-3p UNFURNISHED mobile home, 728-2749 after 5 p.m. 21-4p

after 5 p.m. 21-4p
24. Jobs Available
WOULD LIKE a versatile band to play
for a Montana Motorcycle Association
Banquet Dec. 2. If interested please
call 542-0287. 22-4p

WE NEED MUSICIANS AND VOICES

-brass, strings and reeds. Six dollars an hour, ten dollar minimum to perform short musical compositions, 549-6894. 28. Motorcycles

1968 HONDA 350 Scrambler, 1,500 actual miles, like new, 549-8875. 21-4p

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An artist's conception, based on experience, of the theta state.



By Steven Forbis Montana Review Editor

Biofeedback

There are many signs that man may undertaking systematic ploration of the vast, imperfectly known

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universe of his own being, a step as epochal as his construction of a science of the galax-

> Willis Harmon U.S. Office of Education

Biofeedback is the tool with which scientists hope to explore the universe of the mind. Biofeedback is being used today to cure illness, expand consciousness and probe psychic phenomenon.

Biofeedback is the process of feeding data on the biological processes of an organism back into the sensory imputs of that organism. It has been discovered that when an organism is provided with the proper data it can learn to control any biological function.

To gain a clearer understanding of the term, it is useful to consider the roots of the word. Bio means life. Feedback is a scientific term to describe the process through which self-regulating events achieve selfregulation.

A refrigerator turning itself on and off is a good example of a selfregulating event. When the temperature inside a refrigerator rises above a certain point, say 40 degrees, a sensor closes a switch. The switch turns on a compressor which causes refrigerant to

circulate in tubes inside the cabinet. The tubes cool off the air around them until the temperature inside the refrigerator falls below 40 degrees. When the temperature falls below 40, the sensor opens the switch, turning off the compressor. The air temperature inside the machine begins to rise slowly until it gets above 40 and the whole process begins again.

In a refrigerator, the sensor, thermostatic switch, provides feedback to the machine concerning the temperature of the air inside the cabinet. When it is too warm, the sensor turns the machine on. When it is too cold, the sensor turns the

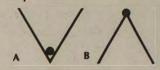
Another kind of feedback most people are familiar with is the piercing howl of a public address system turned up too much. In this case, noise picked up by the microphone (a sensor) is fed and amplified into the speakers. The sound from the speakers, louder now, is picked up by the microphone and fed back through the amplifier and into the speakers again. The cycle repeats itself until the amplifier is no longer capable of making the noise any

Negative and positive

This kind of feedback is different from the kind at work in the The refrigerator. kind-negative feedback-tends to keep the system it regulates

The second balanced. type-positive feedback-tends to keep the system it regulates un-

Figure 1 illustrates the difference between the two con-



In A. if the ball is forced to the left or to the right, the slanting walls will tend to return the ball to the center. In B, if the ball is pushed in either direction, it will tend to keep on

Feedback occurs in living mechanisms, too. When throwing rocks at a tree a man will use his eyes as sensors to tell him how good his aim is. If he misses the first time because he threw the stone too far to the left, he will see this and compensate next time by aiming a little more to the right. This is negative feedback.

If one has ever listened to someone wearing stereo headphones one knows that the stereophile tends to shout. In order to hear himself speak—in other words, get auditory feedback-he must shout to overcome the music. The tendency to shout is positive feedback.

In a sense, biofeedback—the concept of feedback applied to living things—is nothing ex-traordinary. What makes it exciting is that it can be used to train people to control their bodies in new and beneficial ways. Scientists have found that the average human being is limited something like a deaf person. A deaf person has the ability to speak, but without the auditory feedback provided by the ears he has no way of knowing what sound he is making. He has the ability to make sounds but lacks the facilities to control sounds

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HANSEN'S 519 S. Higgins

feedback needed to control it voluntarily. Previously it was theorized that the heart was controlled by an involuntry nervous system. Because the heart was connected to another

The same sort of thing is true of the

average man. He has the ability to

make his heart beat but lacks the

"circuit" it could not be controlled voluntarily. Yogis in India, reported to be able to stop their hearts, were dismissed out of hand by psychologists. These theorists have been proven

wrong. Any normal human being has the ability to voluntarily regulate his heart just as he can regulate his lungs. Most people do not because they simply lack the appropriate feedback. Yogis, on the other hand, spend hours in quiet meditation and, in time, learn to sense and control their hearts.

Practical application

Man's surprising ability to control his own body has been quickly put to use. To provide people with the feedback necessary for selfregulation machines are being built to act as sensors. These machines, called transducers, everything from kidney function to electromagnetic waves produced by the brain.

Transducers, in addition to their function as sensors, convert the data they pick up to a form compatible with man's senses. Heartrate is converted to flashing lights. Brainwaves are converted to various tones. Slight variations in body temperature are converted to readings on a meter.

One of the uses to which biofeedback has been put is the treatment of illness. Some disorders that have defied treatment have been controlled by patients using biofeed-back methods.

For instance, a team of researchers headed by Dr. Elmer Green at the Menninger Foundation in Topeka have used biofeedback to help migraine sufferers keep their headaches away. The team used a transducer that sensed patients temperature on their hands and compared it to the temperature of the patients' forehead. The data was displayed on a meter. Patients were asked to move the needle to the right using "mental power." Movement to the right indicated that the temperature of the patient's hand was rising in relation to the temperature of the forehead.

Eighty per cent of the patients were able to reduce or eliminate the headaches. By increasing the temperature of the hands the patients were diverting blood away from the head. The decrease in

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\$893

72 Plymouth

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\$2693

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Delmont 2-door hardtop, automatic, power steering, all the

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Charger 2-door hardtop, V-8 automatic transmission, power

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bloodflow to the head caused the headaches in many disappear.

The Topeka team, along with other research groups, has found that biofeedback not only provides patients with the information to control various disorders, but also trains the patient to provide himself with the information later.

In other words, migraine sufferers who learned the hand-warming technique were able to control their headaches without further need of the temperature transducer. This evidence indicates that the feedback channels necessary for self-regulation are present in humans and all anyone needs to achieve self-regulation is training with the appropriate transducers.

Cardial applications

In another study, at the Baltimore City Hospital, Dr. Bernard Engel and Dr. Theodore Weiss used biofeedback to control irregularities in the heartbeats of cardiac patients. The patients were placed on a bed and connected to a computerized transducer. The transducer controlled red, yellow and blue lamps at the foot of the bed. The patients were told to "drive" their hearts following the "rules of the road." The red lamp meant slow down, the green meant speed up and the yellow meant hold steady.

When patients learned to do this the irregularities in their heartrate disappeared. Again, no further training was needed and patients could regulate their hearts at will.

There is some speculation in the scientific community that biofeedback training will someday be effective in controlling cancer. Patients can be trained, it is believed, to cut off the blood supply to cancerous tissue much the same way blood flow to the head can be reduced.

It is in the area of consciousness control that biofeedback promises to make the greatest contribution. Consciousness control is achieved much the same way body control is achieved. All that is required is the appropriate transducer. The discovery of the transducer is a story in

Hans Berger, a German scientist ridiculed for his belief that the brain produces electromagnetic waves, discovered brainwaves in 1924. A galvanometer responded to electric currents picked up off a young mental patient's scalp. Within five years Burger had identified two distinct brainwave patterns. He named them "alpha" and "beta." He dis-covered that alpha waves were associated with a relaxed state and beta waves with an alert state.

After Burger's pioneering work, more sensitive machines were developed. These machines, electroencephalographs, detected two additional brainwave patterns. These were called "theta" and

The four brainwave patterns are usually arranged in order of decreasing frequency in cycles per second. First is beta (14 to 40 cycles per second), followed by alpha (7 to 13 c.p.s.), theta (4 to 7 c.p.s.) and delta (0 to 6 c.p.s.).

Each wave pattern is associated with a different state of consciousness. The brain gives off beta waves when it is alert, alpha waves when it is relaxed, theta waves when it is half asleep and delta waves when it is

Thus the transducer for consciousness was developed. However, it wasn't until 1958 when it was put to use. Dr. Joseph Kamiya the University of Chicago decided to see if experimental subjects could guess whether they were in alpha or beta. He wired his subjects up to an elec-troencephalograph (EEG) and stationed himself in an adjoining cubicle. The subject was instructed to close his eyes and guess whether he was in state "A" (alpha) or state

→ page 10



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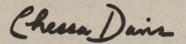
At the Menninger Foundation, Jack Schwarz, wired to an electroencephalograph, demonstrates his remarkable ability to control





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TINKER FRAU SKIRT

PEDDLER'S CLOAK SKIRT



Hammond Arcade Building Corner of Higgins & Front Downtown

Friday, November 10, 1972-9

page 9 →

'B" (non-alpha) whenever a bell rang. He was told after each guess-whether he was right or wrong. The first subject was right only half the time at first. His percentage improved at the experiment progressed and by the fourth day the subject was able to make the discrimination 400 times in a row. Other subjects yielded similar results. Subjects were also able to put themselves in either state upon command from the experimenter thus demonstrating voluntary control of consciousness

After Kamiya's pioneering work, other researchers have been study-ing different methods of supplying brainwave feedback to people. Some machines display several kinds of biofeedback onto a screen. Others convert alpha waves and theta waves into psychic stereo. However, alpha and theta (the most interesting states) can be trained effectively with the simplest feedback cues-flashing lights or electronic beeps

Today alpha-theta trainers are transistorized and portable. They are relatively inexpensive (\$400 compared to \$10,000 for a loboratory machine) and easy to use. The trainee may clip two little wired clothes-pins to his earlobes and strap a contact to the back of his

To learn to produce alpha waves, the user sits in a quiet, darkened room. He remains still and closes his eyes. Since alpha is often produced when the eyes are closed the portable trainer will soon signal the onset of alpha. The trainee will soon learn to make the signal go on at will. The next step is to produce alpha and slowly open the eyes. At first opening the eyes will stop alpha completely. In time, the trainee will be able to go into alpha at will, with his eyes open.

Alpha is generally considered to be a peaceful, pleasurable, meditative state. Research has shown that cigarette smokers tend not to go into alpha. (There is some hope that training smokers to produce alpha will result in a reduced need for tobacco.) The alpha state may have uses other than just a way to relax.

Tougher theta

Theta is more difficult to produce. The trainee must sit very still. Any movement may produce "artifacts"—false signals of the onset of theta or alpha. Autogenic sugges-tion is used to bring on a theta state. The trainee may say to himself, "I feel relaxed. My arms and legs feel warm and heavy." Often it helps a trainee to put himself asleep, starting with the feet and working up the

When the trainee is able to almost put himself asleep the feedback trainer will signal the onset of theta. The trainee will emerge from the theta state immediately. This is not undesireable—the sudden awakening often allows the student to remember what he visualized at the onset of theta. He may remember seeing a face very clearly or hearing a voice that sounded real. Learning theta may take several months.

The theta state is now regarded as the most interesting and important of the three less-than-alert states. Some of the theta subjects trained in Dr. Green's laboratory compared the experience to LSD trips. Many who used LSD said they no longer needed it, while others reported benefits such as improved attitude,

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a greater awareness of others and greater self-awareness.

Theta is a creative state. Many people keep a notebook near their bed to jot down ideas that occur to them just before they fall asleep. Almost everyone has experienced theta as a twilight between asleep

Researchers are only now getting a glimpse at the possible benefits that control of consciousness may hold for mankind. The Topeka group, for instance, is studying three in-dividuals with extraordinary psychic powers. Using biofeedback, these scientists home to discours here scientists hope to discover how these men do the things they do and train subjects to do the same things.

The three men studied at the Menninger Foundation are Jack Schwarz, a Dutchman who came to the U.S. in 1957; Rolling Thunder, an American Indian medicine man and Swami Rama, a yogi from India. Schwarz, being a westerner, is perhaps the most ineresting.

Since he was 9, Schwarz has had unusual abilities. He claims to see fringes of light emanating from people. These fringes are called "auras." Schwarz has demonstrated to doctors his ability to "read" auras by telling them about themselves.

One psychiatrist remarked, "There is definately something to all of this. Whether he is actually seeing an aura or perceiving these things physically, it's "remarkable."

Feels no pain

Schwarz has a remarkable ability to control pain. When he was in his teens he had a bed of nails built. To demonstrate his ability he would lie on the nails on stage while people from the audience would walk on top of him. The nails would penetrate about a half an inch. However, there was no bleeding and 15 minutes after each demonstration the wounds would no longer be visible.

In the past few years Schwarz has been telling people about his abilities. He believes that everyone can do the things he does given the proper training. The Menninger group is testing to see if biofeedback would be part of that training. In one experiment at Menninger, Schwarz was wired to an EEG while he demonstrated pain control. He took a six-inch darning needle, dropped it on the floor and rolled it around with the sole of his shoe. He then picked the needle up and calmly pushed it through his left bicep. As he did so the EEG showed Schwarz was putting out alpha.

When he pulled the needle out Green asked, "Will it bleed?" Immediately blood rushed from the wounds on both sides of the arm as Schwarz left his alpha trance. "Now it will stop," he said. According to Green the wounds then closed up as though they were being drawn shut with purse-strings.

In another demonstration at Menninger involving a needle, Swami Rama was able to make a needle suspended horizontally from a string rotate without touching it. This abiliy is called psychokineses, and is being intensively studied by psychologists in the Soviet Union. If a man could control pain by lapsing into an alpha trance the value of teaching men the ability to control consciousness is obvious.

High hopes are held for the benefits of theta. Theta has been tied to states of deep meditation in yogis. These yogis claim that a psychic energy field exists. There are now some empirical findings that tend to confirm this. This energy field may be at work in phenomenon currently not explained by western

For instance, acupuncture has been shown to be a very effective cure for disorders not caused by viruses or bacteria. With acupuncture, needles are inserted at specific points of the body to treat illness or relieve pain. In the Soviet Union, scientists claim to have developed a way to photograph the energy field. In the photographs this energy appears as a geyser of light erupting from the skin at various points. These points coincide with the points where the needles are inserted. It is also very possible that the geysers of light on the Russians' photographs are the auras that Jack Schwarz sees.

Scientists in this country speculate that the energy field of the yogis may be like other energy fields, for instance, gravity and electromagnetism. They theorize that this energy field is the field in which the mind operates. If such a field exists it may explain such phenomenon as telepathy, rein-carnation, spirits, intuition, ESP, deja' vu, visualization of events in the future and even creativity.

Some unusual events in the area of creativity have been noted. Mae West wrote the script to her movie Every Day's a Holiday in the time it took to audition a new song. She spent the next few hours dictating the script to studio secretaries. The result was one of her best films.

If all of these theories bear out, the benefits of biofeedback will be incalculable. There is a supreme justice in that this revolution of the mind will have been brought about by a combination of eastern philosophy and western technology.







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