

ARGONAUT

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University of Idaho

The man behind the trigger

*UI prof invented the device
that set off the atom bomb*

By Jane Roskams
of the Argonaut

August 6, 1945, 8:16 a.m.: A pinprick of purplish-red light expands to a glowing fireball hundreds of feet wide. The temperature at its core is 50 million degrees Celsius. At "ground zero," the Shima clinic, directly beneath the detonation of the first atomic bomb on inhabited territory, the temperature reaches several thousand degrees Celsius.

At a height of 29,200 feet, Larry Johnston was witnessing the first nuclear holocaust out of the port-hole of the B-29 in which he was traveling.

"I had come to terms that tens of thousands of people would be killed. As I looked down, I could see the fireball and the pressure wave just leaving a trail of dust and rubble behind it, but I wasn't thinking about that.

"I think my major feeling was relief that the thing actually went off. I was fully prepared either for it to work or to fail, but I was surprised by the magnitude of it. One reason why I didn't feel any special emotion was because I was so exhausted. We'd been working around the clock for over a week trying to get it ready, and had already been on the flight 14 hours."

Lawrence H. Johnston doesn't witness atomic explosions these days. He currently teaches nuclear physics at the University of Idaho; but some 40 years ago, he was playing an integral role in the development of the first A-bombs.

Johnston was born in China in 1918, the son of two American missionaries. Five years later the family moved back to the United States. Johnston attended the University of California at Berkeley, where he studied nuclear physics under the direction of Luis Alvarez, the Nobel Prize Winner. It was through Alvarez that he became involved in the development of the A-bomb.

"I went to Los Alamos in April 1943 to work on the Manhattan Project. The lab had been in operation for about six months at that time. I was only 23, and it was quite an amazing experience to be working with a team of Nobel prize winners."

The team included worldwide acclaimed physicists Enrico Fermi, Hans Bethe and Ernest O. Lawrence. The project was directed by the controversial but brilliant J. Robert Oppenheimer.

There were other labs in the U.S. working on the A-



See **Bomb** page 5

Campus

Senate to look at fee for concerts

The \$2 entertainment fee that students currently pay each semester, which is set aside for concerts, will come under scrutiny at the ASUI Senate meeting Wednesday night.

Also on the agenda for Senate action is a bill changing the penalty fee for voting more than once in an ASUI election from \$300 to \$200.

A representative from Nightline will put in an appearance before the Senate with a request for money to operate the program. They are asking \$2,000 from the ASUI as their yearly allocation.

The pre-session moved from its traditional Tuesday night slot to Wednesday night this week, so senators could attend the public hearing on the Idaho Association of Commerce and Industry's preliminary recommendations, which convenes tonight at the University Inn. The pre-session will begin at 6 p.m. with the regular Senate meeting following at 7 p.m. in the Chiefs Room of the SUB.

President Pro Tempore Jeff Kunz will preside over both meetings, as Vice-President Teresa Madison will be acting ASUI President in lieu of President Scott Green's absence. Green will be out of town on speaking engagements.

Council to hear long-range plan

Today's meeting of the University of Idaho Faculty Council will include presentations concerning the state funding formula and the strategy for UI's long-range planning activity, delivered by

Program to aid faculty development

By Linda Lee
of the Argonaut

Students at the UI are not the only ones working towards a degree or searching for a career, so are some of the instructors.

According to Robert R. Furgason, vice president of academic affairs, the Faculty Development Program is designed to aid faculty members in broadening their current jobs with new opportunities for advancement. The program is also applied "to address the shifting needs of the University," Furgason said.

"As time goes on, professional people need to assess their qualities in accordance with what they originally set out to do," Furgason said. He added that this

does not necessarily involve redesigning their sphere of study from one department to another, but quite often enhances those essential elements inside the course of instruction that he or she is partaking in.

The program is individually oriented. Often, the area of study a prospective individual chooses is based on a possible lack of professors in that field. But Furgason added that it "depends on circumstances" as to what the person wants in terms of goals and financial opportunities, for the chosen area "must absorb those needs."

Actual classes can be taken here at the UI or elsewhere or by working individually with another instructor to gain some

"hands on" experience, according to Furgason. He added that it was a matter of personal preference as to how extensive the program should be, and that does not necessarily mean having to earn a degree.

Presently, the fields of computer science and engineering demand knowledgeable people to fill positions, and Furgason said that there has been one case where an instructor went from the school of music to computer science.

The program was hampered in the beginning by financial difficulties, but it is now in its second year and has three instructors taking part.

Furgason said that he hoped there would be more involvement in the future.

Academic Vice President Robert Furgason.

The meeting will commence at 3:30 p.m. in Brink Hall's Faculty Lounge.

The agenda also includes a request by council member Rosario Fasolino to determine what the UI's policy is concerning the use of student evaluations of teachers.

A court decision in Massachusetts has held that student evaluations are personal and should not be available to the public, according to UI Faculty Secretary Bruce Bray. Fasolino has asked the council to read the decision and see how it relates to current UI policy, Bray said.

During last week's meeting of the council, recommendations were passed that should ease some of the problems transfer students are experiencing with the core curriculum. One of the recommendations included moving toward computerization of transcripts in the future.

The chairman of the committee making the recommendations,

Letters and Science Dean Galen Rowe, said the benefits of computerized transcripts "would be sizeable indeed." Computerization would make advising much easier for all concerned, he said.

Rowe also said through computerization, students not meeting all the requirements for graduation could be notified at an earlier date.

The recommendations are now in the hands of the administration, according to Bray.

Prof to lecture on Idaho bards

University of Idaho professor Ron McFarland will give a public reading and lecture on poems by Idaho's early poets at the Latah County Historical Society's McConnell Mansion, 110 South Adams, this Thursday at 7:30 p.m.

McFarland, who was recently named Idaho's "writer in residence" by Gov. John Evans, will read poems composed by Idaho settlers during the ter-

ritorial period (1862-1890) and published in local newspapers throughout the state. His reading and comments will be based on research conducted during the past year which was funded by the Association for the Humanities in Idaho.

McFarland reports that hundreds of poems by Idaho settlers were published in the territorial newspapers, most by anonymous poets. The writings range from highly sentimentalized memorials and love poems to serious statements about life in the new territory and comic celebrations of mining and the bachelor's life.

The reading is free and open to the public.

Pea, lentil cookoff set

The International Food Festival, with both food and art booths, will take place on Main Street Friday and Saturday.

The Festival will feature an In-

ternational Market Place and several contests including the pea and lentil cook off. Something new this year is The First Annual Harvest Fashion Show in which contestants will wear ensembles created from garden produce. All contests promise prizes to entrants.

Music will be provided by the Palouse Folklore Society whose Annual Folk Festival will coincide with the food fair. The first concert is scheduled for Friday at 8 p.m. in the Moscow Community Center. The headliner is Bill Staines, a well-known folk musician who sings, yodels, writes folk songs, and plays the guitar.

Folk music will accompany the food fair activities Saturday, from a stage in Friendship Square. Another stage will feature international dance.

The festival will wind up with an old-time country dance in the Moscow Community Center at 8 p.m. Saturday. The band Irish Jubilee will play and Richard Thiessen will call the dances. Beginners and singles are encouraged to attend.

ARGONAUT

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ON THE COVER

Larry Johnston, a UI physics professor, peers into a laser mechanism that he has been using as part of his research at Moscow. Photo by Scott Spiker.

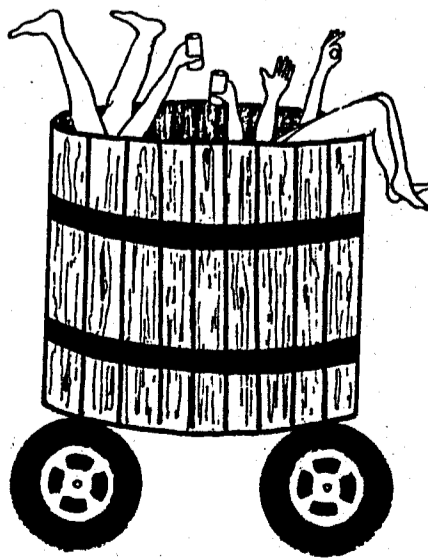
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Opinion

Students should fight tuition

There are a lot of signs that support is growing around Idaho for a change in the Constitution that would allow the state to charge college students tuition at the four state-run schools. Considering the impact that will have on their pocketbooks, students themselves should do their utmost to stem that tide; and a good time to start is this week.

Leading the way in the tuition proposals is the Idaho Association of Commerce and Industry's Task Force on Higher Education, which spent the better part of last year compiling testimony and information on the problems facing Idaho's higher education institutions. The task force is now in the process of holding hearings on its preliminary recommendations.

Among those recommendations are some sound ones — the establishment of admissions standards for the universities, the creation of a community college network, development of a clear role and mission statement at each school, and support for increases in faculty salaries. But then they blundered.

The panel recommended approval of in-state tuition for Idaho college students. The change was viewed as a way out of the financial straits the colleges are in now. Unfortunately, in the long run, the change will probably cause even more problems.

The original idea behind a tuition-free education was to give rural Idaho residents an even chance at a college diploma; that idea still holds as a reason to keep it that way. Idahoans are not notably wealthy. Many of them can only afford the small amount now charged at Idaho colleges; to add the burden of tuition would likely force many of them out for strictly economic reasons. Idaho education, then, would in essence fall into the hands of the elite who can afford it.

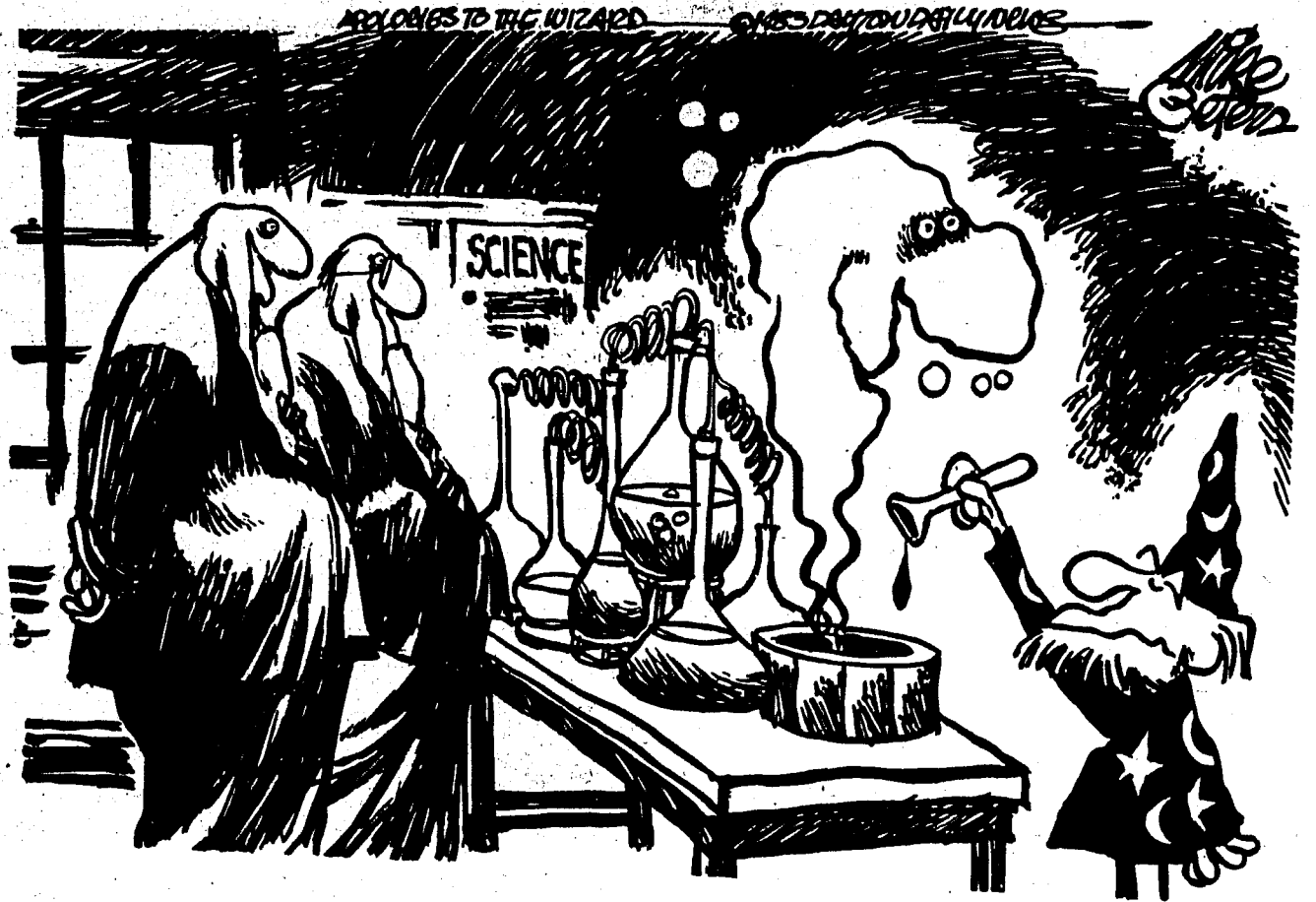
Moreover, college education doesn't benefit just the students. Those students become part of Idaho's thinking people; they, by benefit of their education, contribute to an increase in the quality of life in Idaho. Studies on the state's quality of life have borne this out.

Yet, because of the IACI recommendation, there's more talk of shifting the increasing burden of higher education onto the backs of the students. Notably, that talk is coming from the halls of the Idaho Legislature.

Students must begin the fight now. Indeed, they can begin tonight. The IACI task force is holding one of its hearings in Moscow this evening. It's from 7 to 11 p.m. at the University Inn's Palouse Room.

If you're concerned about how the state has been digging into your pocketbook lately, you'll show up. And you might even let them know what you think of their plans for you.

— David Neiwert



PROFESSOR...I THINK IT'S TIME WE UPDATED OUR SCIENCE PROGRAM.

Jennifer Seidemann-Fall

Young women looking like teenie boppers and young men seeming old, yet they have just begun to shave. And me, limping around campus on old knees feeling like I've stepped into another world. After 12 years, how do I stop being a mechanic and suddenly start becoming a student?

As a mechanic, everything learned was cut and dried. Use this tool to fix that, use this part to replace that, nuts go with bolts, etc.

Now the learning is almost all conceptual. Nothing is as it seems; insanity could or could not be defined, two plus two may or may not equal four, passing or flunking a test may or may not be important to a final grade. Oh God, I feel like I'm going through culture shock. My mind is fogged in the masses of information being pumped to me three times a week, Mondays, Wednesdays, and Fridays. The material goes into my head, I understand it clearly, then it goes right out into space and I'm fogged in again; no retention at all. I can't seem to come out of the daze and concentrate on each class individually. When will this end?

How can I cope with this new life? What will become of me if I don't live up to my own expectations? How do I go about measuring up? How do I remember all the information? How do I decipher what the instructor wants? Do others see the instructors in such a humorous light as I do? When will my mind clear away the fog and start retaining the so very clear understanding of the material? When will my memory "click" in and begin to remember? Why does it seem I take twice, even thrice, as many notes as the other students? Do I hear things they don't? Perhaps I listen too closely. My test scores indicate I don't listen close enough. Why do I have such anxieties over tests? But on the other hand, I can't retain the material from one day to the next to even expect or hope for a "B". Must I settle with "C's" for the next four years?

I must have real brains, somewhere. I just have to

Shock

find a brain broom to sweep out the cobwebs. Some way must come in order for me to beef-up my memory span.

All the time I realize I must get answers or I won't survive this new culture. So I go often to a place called Special Services. This is a place where lost students go to get help in finding their way through difficult classes. This is where this lost mechanic goes to find that one comfortable spot in Studentville that, I know, awaits me. I ask questions on "how to" and these wonderful people give me hints and cues as to which direction I should go to find the answers.

Sometimes, they divulge too much at one time and the fog thickens to the point where I must shake my head and remember the original question to all those answers. I have learned more about taking notes, reading textbooks and even how to pass algebra. Yet, there are many times when I walk into the director's office and start talking about anything, hoping enough will come out of my head and I will suddenly spout the answers that will cause the cloud around my brain to dissipate. It hasn't happened yet, but I've discovered that I'm not alone in this cloud.

Through the help of many, I've discovered there are others out there wondering the same things as I. This helps. It has also occurred to me that these other students, in my classes, have troubles too. Even though they are more, or perhaps less, concerned than I, they too are surviving. It still makes me wonder, what kind of culture shock are they going through? They seem to keep their "cool" so well. Perhaps, one day, one of "them" will write a paper organizing and formulating all the data needed to overcome the culture shock of an older freshman's first semester. Any volunteers?

Jennifer Seidemann-Fall is a guest columnist for the Argonaut.

Letters policy

The *Argonaut* will accept letters to the editor until noon on days prior to publication. They must be typed (double spaced), signed, and must include the name, address, phone number and student ID or driver's license number of the author. Letters will be edited for clarity and spelling. The *Argonaut* reserves the right to refuse letters that are libelous or in bad taste.

Letters

Watch out for editorials

Editor:

It's been difficult, but I finally have to give in. I believe it my responsibility to respond, not to just one of Dave Niewart's (sic) opinions, but the bulk of them. I have never in my life experienced an editor so lazy as to write opinion after opinion with little effort to research his subjects. After reading the opinion of Friday, Sept. 16, concerning the salary increase for our new dean of engineering, I decided someone with limited, but better researched, information must reply.

Mr. Niewart stated that faculty have had their salaries frozen. In fact, faculty have had salary increases as follows: FY80, 6.86 percent; FY81, 9.15 percent; FY82, 8.53 percent; FY83, 7.51 percent; FY84, 4.33 percent. Granted, these increases do not come close to approaching the faculty salary equity other states enjoy, but one can not claim that faculty salaries have been frozen.

The real area where salaries have been stagnated is in the area encompassing the dean and vice-president's salaries. The faculty have received increases in excess of the dean and v.p. positions as follows: FY80, 1.6 percent; FY81, 1.55 percent; FY82, .86 percent; FY83, 2.01 percent; FY84, 4.33 percent. One can not imagine the enormity of this difference until one puts it into dollars and cents. Further, one must take into consideration the compounding effects of this differential. The faculty have gained seven percentage points on the deans and v.p.'s for the five years ending fiscal year 1984.

Mr. Niewart also stated, "If the administration wants to raise salaries, it better be prepared not to give the deans any special treatment." It appears that the administration has given anything but special treatment to the deans. This pay raise movement is long overdue, and I hope to see all the deans get raises. I would hope that these raises lead to the badly needed raises for faculty. We are in this boat together, so we can not be drawing lines between faculty and administrators when asking for salary increases. The administra-

tion has started bringing greater equity to salaries by raising salaries to the area hurt most by the funding shortfall. From here we must continue to expand and push for faculty increases.

I have used this opinion as an example of a poorly researched opinion. I could take any opinion David has written this year and point out inconsistencies and fallacies. My point in all this is for unsuspecting readers, beware of poorly researched opinion and take it for face value. I would hope that, in the future, David at least makes an attempt to qualify his opinions with statements of fact. I tire of reading articles you would expect to find in the *Enquirer*.

Scott Green

David Niewart responds: *Green apparently prefers to misinterpret and then attack on the basis of the misinterpretation. First, let's refer to the phrases (admittedly ambiguous ones) in the editorial with which Green takes issue: "Offering a salary in that range can only have the effect of damaging the already deteriorating morale among faculty and staff. They have had their salaries frozen because the university hasn't been able to afford pay raises for them." As Green points out, faculty in general have not received official salary freezes; however, inevitably there are some faculty members who receive virtually nothing at all because of the way the increases are distributed. Moreover, UI staff in general have in fact had their salaries frozen since July. The phrases were worded (esp. "among") so as to reflect that; that is, they did not necessarily refer to all faculty.*

Second, even though the general rate of faculty raises has outstripped that for the deans, the pay level in general for the deans still far outstrips that for the faculty; thus, it is easier to justify faculty raises when they're earning, say, \$20,000 a year as opposed to a dean's \$50-60,000 per year.

Finally, I'm glad to see that Green is concerned about accuracy and research. Maybe next time he can spell the editor of the student newspaper's name right.

We stand behind the editorial as published.

Options for Mac's release

Editor:

As we seem to have reached an impasse in negotiations for the release of your "beloved" Macklin; Whitman Hall, in a spirit of compromise, offers the following options:

A) Hostage Exchange — Macklin for Christy Brinkley (contrary to popular belief, we would know exactly what to do with her).

B) Front-page coverage in the *Arg* on what nice, sensible, semi-respectable guys actually inhabit Whitman Hall (good press is so hard to get nowadays). This is in response to the totally unprovoked entering of the Whitman Hall defensive perimeter.

C) Abject groveling by Mundt at our next hall meeting (dirty knees required).

If one of these options or our original ransom are not met, all I can predict is pain (We love the smell of beer in the morning).

Brian R. Thomas
Artiste de'camp
Whitman Hall

Mom's Sneak a big success

Editor:

The men of Lambda Chi Alpha are proud to report that this year, as in every year, the House Mother's Sneak was a success and also a great night to sing and dance around the OI' campfire. The proceeds from this charity drive will go to the North Idaho Children's Home which is located in Orofino.

We would like to thank the following sororities for their enthusiastic participation: Alpha Chi Omega, Alpha Gamma Delta, Alpha Phi, Delta Delta Delta, Delta Gamma, Kappa Alpha Theta, Kappa Kappa Gamma and Ima Preppa.

We regret that not all of the sororities deemed this event worthwhile enough to sacrifice an hour for fun and charity. We are happy to announce that the winners of this year's event is Kappa Kappa Gamma.

Timothy Austin

Bomb

From page 1

bomb, but the teams of those labs were involved in producing fissionable materials. In Washington, at the Hanford Laboratories, they were producing plutonium; in Tennessee they were separating uranium isotopes; and in Chicago they were specializing in nuclear chemistry and metallurgy. The task of the Los Alamos Laboratory was to design the bomb from those materials.

Johnston was involved in designing a detonator for the bomb. He tried several methods for detonation of the high explosive, in order to initiate the atomic explosion that worked well with Uranium-235, but not with Plutonium-239. The technique most successful was developed by Johnston and employed implosion, which worked for both isotopes (see accompanying story).

Johnston said he was aware of the destructive capabilities he was working to unleash.

"When I first went to work on the bomb, I was fully aware of its capabilities, and I certainly envisaged that it would be used. To begin with, we thought it would be used in the war against Germany, but then V.E. Day was declared, and that just left Japan. At the time I had plenty of reason to be put out with the Japanese because of what they had done to my friends in China."

Johnston, a practicing Christian, said, "I didn't think of it as just a job, I regarded it as a mission. I often asked myself if Jesus would want me to be working on the bomb. I prayed about it considerably. Many Christians have different approaches to divine guidance."

He described his approach to the problem as "the opening and closing of doors" — if an option becomes available, he will take it, but will ask God to intervene and advise him if it's not the right thing. Thus, if he believes that God disapproves, then that door would be closed.

"My approach is that, if it appears that something should be done, say, there is a great threat to our families and our way of life; it seems a natural opinion from a physical standpoint to try and remove that threat."

The team eventually developed a three-way system to trigger the detonator. The first was a small radar proximity fuse which was programmed to detonate within a certain

Here's how the detonator works

In order for a nuclear explosion to occur, the material used must attain "critical mass." Any mass above this is unstable, and will produce a chain reaction leading to the explosion. Mass, in this instance, is in kilograms and takes gravity into consideration.

There are two basic ways to attain critical mass. If the material is Uranium-235, then a "gun" technique is applied. Two concentric cylinders of U-235, each less than critical mass, are brought together by shooting one hemisphere at the other. The two then merge, forming a mass in excess of critical mass, thus initiating the chain reaction. A bomb of this kind was used on Hiroshima.

This technique cannot be applied to Plutonium-239, as it is more active and is constantly expelling reactive neutrons. If the "gun" method were attempted with Pu-239, it would initiate a minor explosion long before the two halves were brought together and would be impossible to control.

Instead, a single sphere of Pu-239, about the size of a softball and slightly smaller than critical mass, is surrounded by a casing of high explosives. Every single section of explosive must be set off within one microsecond in order for a uniform "implosion" to occur. This will cause the casing to compress the Pu-239 to one-tenth of its original volume.

This, in turn, brings about a change in the density of the Pu-239, bringing it to above critical, and initiates the chain reaction. The technique can also be used successfully with U-235. A plutonium bomb was used on Nagasaki.

For many months after developing the implosion method scientists had difficulty trying to produce a uniform implosion. It was Lawrence Johnston, working with Luis Alvarez, who finally devised the technique, and it is patented in his name.

See Bomb, page 10



by Mundt

KUID fundraiser nets over \$11,000 in pledges

KUID-TV completed its "Autumnfest" fundraising drive, Sunday night, with an unofficial total of \$11,722 in pledges of funding support from viewers and just over 200 new memberships.

Cathy Rouyer, KUID's development director, said the drive began on Saturday, Sept. 10, when a football game between the University of Idaho Vandals and Southern Colorado. She said the \$2,450 raised then

turned out to be the record day for the eight-day drive.

Rouyer added that about 125 renewed memberships were phoned in, bringing the total number of memberships to approximately 335. However, she said the final tally of both dollars and memberships would not be certain until today or Wednesday.

Rouyer said that private contributions make up 23 percent of

the station's budget and because of federal and state budget cutbacks the station relies heavily on the private sector. She said that the government in the past has matched every \$1 contribution with 40 cents, but now has reduced that amount to seven cents for every dollar.

KUID is trying to expand its coverage to include all north Idaho towns within the viewing

area in an effort to make KUID "truly north Idaho's television station," according to Rouyer.

She said that the station has received a lot of help from students and campus living groups. She also said volunteers from communities within the KUID viewing area, which stretches from Grangeville to the Canadian border, came in to help out.

Three students to exhibit art

Three University of Idaho students will exhibit their artwork in the Vandal Lounge of the SUB Monday, Sept. 19 through Friday, Sept. 30.

Rebecca Bloom, a graduate art student from Omaha, Neb., has some interesting experiments in ceramics which will be on display. Bloom, who coordinated a show for a visiting artist last year in the Vandal Lounge, as well as other student exhibits, is also coordinating this show.

Doug Kinney, a UI graduate student, will have some of his oil pastels on display. Kinney has taught art at the college and elementary level and is known for his large drawings and paintings.

Annie Dvorak is currently studying oil painting under Mary Kirkwood and has done work using fibers. On exhibit she will have a collection of dolls.

The exhibit opening will be Thursday, at 8 p.m. Along with the artwork — ceramics, wall pieces and dolls — food and beverages will be offered at the opening.

CAREER DAYS
at the U of I College of Agriculture
THURSDAY - Sept. 29
No-host reception - 7:30-9:30 p.m.
Clark Room - Cavanaugh's
FRIDAY - Sept. 30
Room 62 - Ag. Science Building
9:30 a.m. - 12 noon
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Sports

Cross country

Harvey, Sharples lead harriers

By Don Rondeau
of the Argonaut

University of Idaho running star Patsy Sharples has won many races in her career, but her victory last Saturday at the Pelleur Invitational may have been her greatest.

The senior from Fish Hoek, South Africa, set a new record on the grueling 5,000 meter course with a time of 18.11. Coming into the meet, Sharples had been suffering with bronchitis and was not 100 percent healthy. She presently is taking antibodies.

"I knew I wasn't going to do anything on the hills. If I was going to make a move, it would have to be on the flat. I was tired on the hills. I don't know if it was from my bronchitis or not," she said.

And it was on flat terrain where Sharples overtook teammate Sherrie Crang. At approximately the 2,000 meter mark, Sharples passed Crang and never lost the lead. It was the second time she

had won the race.

Crang, a junior from Vancouver, Wash., was nipped at the finish line by a Pacific Lutheran harrier, to prevent the Vandals having a 1-2 finish.

The meet was non-scoring. If it had not been, Idaho could have been defeated by an upstart Montana, a Mountain West Athletic Conference foe. The Vandals were without the services of Pam Paudler for the meet, a loss which could have tipped the balance for a Montana win.

Paudler has been feeling discomfort in her hip area due to an injury she sustained last October that knocked her out of action for the remaining cross country and track season. But, as one of the Vandals' top runners, Paudler will run in the Fort Casey Invitational on Oct. 1, according to head coach Roger Norris.

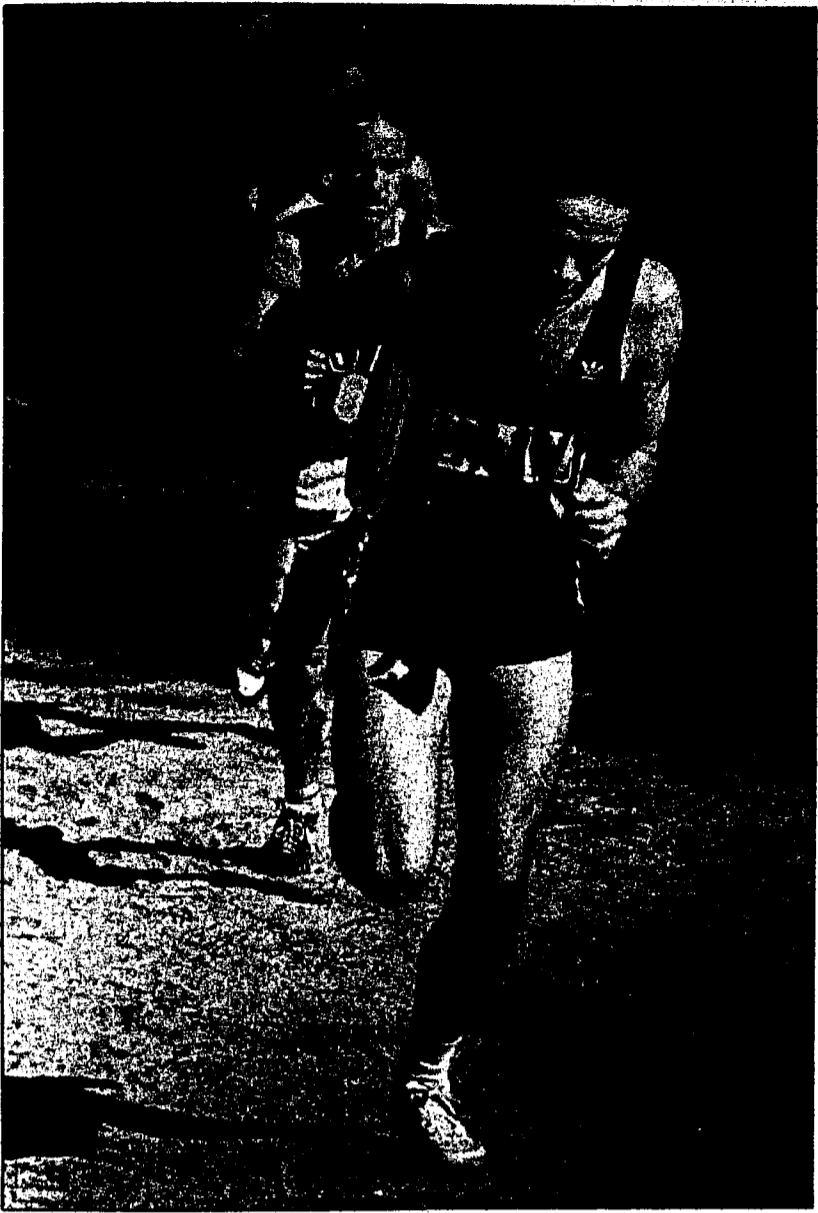
Other Vandal finishers were: Crang, third place, 18.14; Lisa Kindelan, tenth place, 19.18; Cindy Crow, fourteenth, 19.32;

and Lisa Tylor, sixteenth, 19.37.

Norris, whose Vandals dominated last year's opening meet, was not worried about Montana's impressive showing. "I just wanted to get a look at everybody. I saw some problems we have to work on," he said. "We got a good look at everyone on a tough course. We got a look at Montana, who is going to be tough to beat."

As for the men's team, ace runner Andy Harvey probably would like to forget the Pelleur meet. In two previous meets, Harvey had taken wrong turns on the five mile course and did not finish on top after having been in the lead. On Saturday, it was not a false turn that subdued him but a push from behind between the 3,000 and 4,000 meter mark by an unidentified runner. Harvey was uncertain whether the push was intentional or not, but the result was a tumble and a loss of the lead position.

See **Running**, page 9



Scott Spiker

Andy Harvey, a junior from Beaconsfield, England, controls the pace uphill last weekend at the Pelleur Invitational cross country meet in Spokane. Harvey placed fifth overall with a time of 25.37. Harvey is coming off a year long calf injury he sustained last October.

Idaho takes second, hosts tourney Thursday

After being away from home the past three weekends, the UI women's volleyball team returns home this weekend to host the second annual Northwest Classic in the UI Memorial Gym.

The Vandals are the defending champions in the classic, having defeated Washington State for the championship last year. This year, teams from Lewis and Clark State

College, Whitworth, Washington State, Eastern Washington, Gonzaga, Spokane Falls Community College, and Idaho will be featured in the tourney.

The classic begins at 5 p.m. this Thursday when LCSC tangles with WSU. Idaho's first match will be Thursday at 6:30 p.m. against LCSC.

The weekend-long tourney concludes with the champion-

ship match on Saturday at 7:30 p.m. Admission is \$3 for adults, \$2 for non-UI students, and free for UI students with a valid ID.

Idaho placed second with a 3-1 record this past weekend at the Wyoming Invitational in Laramie. The Vandals defeated Montana State 15-7, 9-15, 15-8, and 15-6, Washington 18-16, 15-6,

12-15, and 16-14, Kansas State 15-10, 15-7, and 15-17. Their only match loss came from tournament champion Wyoming 15-12, 9-15, 10-15, and 11-15. Idaho's points are listed first.

Leading Idaho in kills for the four game tourney was Kelly Gibbons with 54. She was followed by Beth Johns with 43, Jenny Frazier with 42,

and Julie Holsinger with 33. Frazier also led the team with 11 blocks and 20 block assists. Kelley Neely was the leader in assists with 172. For their efforts, Gibbons and Frazier were named to the all-tournament team. Also, Frazier broke the UI school record in solo stuff with six against Washington.

The Vandals now stand 10-5 overall this season.

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Evans wins, misses three

The second winner of the Tri-State/Argonaut Pick the Winners Contest is Jay Evans of 1025 W. A St. in Moscow. Evans was the only entrant to miss three games as he picked 11 out of the 14 games correctly.

Four games were thrown out of the contest due to either typographical errors or ties. Both Stanford at Illinois games were tossed out, while the Georgia at Clemson and Arizona State at

UCLA games were eliminated because of tie scores.

The games most often missed were Tulane's upset of Florida State, San Diego State's loss to Utah and Michigan State's victory at Notre Dame. The Alabama-Mississippi game was most often picked correctly.

The Tri-State/Argonaut Pick the Winners Contest runs for nine more weeks.

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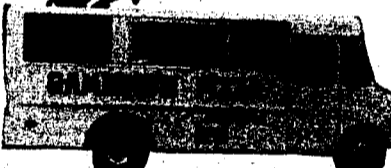
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- Contest is open to all University of Idaho students, faculty and staff. Argonaut mail subscribers are also eligible.
- Contestants may submit only one forecast form each week.
- Forms must be filled out completely and correctly.
- The entry deadline is noon on Friday before the games. The Argonaut is not responsible for entries lost in the mail or delayed.
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Vandals reign in the rain at Bozeman

By Frank Hill
of the Argonaut

When the University of Idaho Vandals traveled to Bozeman to play the Montana State Bobcats, most people in attendance expected to see an aerial show. And why not? Last Saturday's match up pitted two of the best

Running

From page 7

The junior from Beaconsfield, England, is coming off a year-long calf injury he suffered last Oct. 2. But Harvey stated he felt fully recovered from this, his second major calf injury he has suffered while on the Vandal team.

Harvey finished fifth with a time of 25.37. While he averaged slightly five minutes a mile, Harvey's first mile was a sizzling 4.25. He was in eighth place with less than a mile to go, but passed three runners on the last hill of the race.

Tom Bohannon, who ran the third fastest mile nationally in high school last spring with a time of 4:07, sat out with a tight hamstring. He is expected to be ready by Oct. 1.

Another Vandal, Tony Theriault, had to run unattached because his transcripts have not arrived yet from his native country Canada. The freshman finished eleventh with a time of 26.03.

Other Vandals to finish were: Chris Williams, thirty-third, 26.46; Mike Rousseau, thirty-sixth, 26.55; Jim McKean, fortieth, 26.57; Robin Mein, fifty-first, 27.23; Kevin Brophy, sixty-fifth, 27.53; and Jim Tennent, seventy-eighth, 28.30.

throwing quarterbacks in the Big Sky Conference; Idaho's Ken Hobart and MSU's Mike Godfrey.

But instead of a high-scoring barn-burner, MSU fans were mistreated to a new dimension of Air Express, namely a staunch Vandal defense that recorded its first shutout in two seasons: Idaho 23, Montana State 0.

"I'm extremely happy about our defensive effort," UI head football coach Dennis Erickson said. "It's great we've developed some consistency."

Erickson was especially pleased with the effort of sophomore defensive tackle, John Andrews. "Andrews played extremely well. He had three tackles for losses, one sack and two pass deflections."

The Vandals dominated the Bobcats' running attack so completely that MSU finished the game with negative yards rushing. At halftime the Bobcats had minus-17 yards on 19 carries and finished the game with a total of minus-18 yards on 31 tries. The negative yard total established a UI school record for fewest rushing yards allowed in a game.

"I hope that after a game like that, other schools will see our defense as a force to be reckon-

ed with," Erickson said.

Besides controlling the trenches, the Vandal secondary chipped in with two interceptions. Cornerbacks Steve Simpson and Calvin Loveall each picked off errant Godfrey passes. "It's great to finally get some turnovers," Erickson said.

While the Vandal defense was rising to the occasion, the Idaho offense seemed determined to imitate its performance of a week ago against the University of Southern Colorado; the Vandals couldn't get untracked enough to score until the second quarter.

The first scoring of the game by either team came two minutes into the second period when Hobart found tight end Kurt Vestman with a 12-yard touchdown pass. Tim McMonigle's kick made the score 7-0.

That looked to be all the points either side would score in the first half until MSU was forced to punt deep in its own territory. A high snap from center allowed the UI defense to rack up two points when defensive back Mark Tidd buried Bobcat punter Dirk Nelson in the end zone for a safety. The halftime score was 9-0, but Erickson was not pleased with the effort.

"I'm concerned about our play

in the first half," Erickson said. We can't continue to play like that and win very many more games, he added.

Indeed, Hobart's passing statistics for the first half of play were nine completions in 29 attempts with two interceptions. Erickson admitted that the poor weather conditions were the primary cause Vandal receivers dropped six passes in the first half.

The entire game was played under ominous skies and at halftime a sticky mist was falling from the heavens. By the end of the game, the mist had turned to rain and the playing conditions had deteriorated considerably.

"Psychologically, we've had trouble playing on grass over the years, but to win in those-play-

ing conditions was just great," Erickson said.

As the weather became more severe, the Vandal offense began to produce. Where Hobart had a miserable first half, he again turned it around in the second half, completing 13 of 15 passes, two for touchdowns.

In the third quarter, wide receiver Ron Whittenburg hauled down a 66-yard touchdown bomb from Hobart. And in the fourth quarter tailback Andrew Smith tallied six points when Hobart spotted him in the end zone for a two-yard touchdown pitch. Tim McMonigle stayed perfect this season on PATS, adding the extra points after each score and running his consecutive streak to 45 over two seasons.

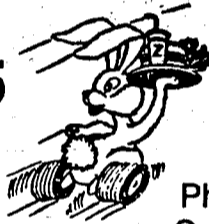
Intramural Corner

Golf (men) — Entries are due today in the IM Office. It is a one day tournament scheduled for Saturday, Sept. 24 at the ASUI golf course. You may enter as many as five men on your team.

Racquetball Singles (women) — Entries are due today in the IM Office. All matches will be played in the ASUI Kibbie Dome on Monday-Thursday evenings.

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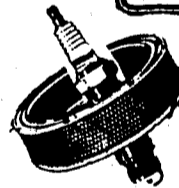
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Bomb

From page 5

distance of the target. Should that fail, a barometric device was fitted, primed to detonate at 1,500 feet. Finally, there was a contact trigger in case the bomb hit the ground without exploding.

After their work on the development of the detonator, Johnston and Alvarez formed a team and were employed to go on each mission and register the effect of the blast.

The first test of the bomb took place at Alamogordo, N.M. early in 1943; both men were present to test their apparatus, flying above the blast in a B-29.

"When we sent the first bomb over to Japan we all wrote messages on the side of it," said Johnston becoming emotional when remembering back to those times. "It was such a big thing for us."

That bomb, dropped on Hiroshima, was devastating: it

caused 151,900-165,900 casualties (including most of the American POWs in the city); 62,000 out of a total of 90,000 buildings were completely destroyed; all the utilities and transportation services were wrecked; and over 70,000 breaks occurred in the water mains, crippling the firefighting capability of the city.

The destruction caused by the bomb did not stop there, and Johnston said physicists were aware of its additional problems. "We knew about the burns, the fallout problem, and the possibility of radiation sickness because of our experiences with X-rays and cancer. However, I think we did underestimate the possible genetic side-effects. We Americans tend to oscillate from one extreme to another. These days people overestimate the effects of radiation, and this could

be because of an awareness from that time."

Three days after Hiroshima, the United States dropped a second atomic weapon on Japan; this time the ultimate target was Nagasaki — but Johnston said it had not been the original target.

"On the Nagasaki flight, there was a mix-up with the planes meeting each other," he said. On the Hiroshima flight there had been three planes, one for the bomb, one for the scientists and their equipment and one for official photographers. On the Nagasaki flight, there were only two.

"They hadn't originally intended to bomb Nagasaki. The original target was a nearby naval base. However, because of the delay of a couple of hours before going in — because of the bad weather and poor visibility — they were low on fuel; they decided to do Nagasaki instead. They didn't have enough gas to get back again if they'd gone to the naval base."

This time the death toll was 39,000.

Johnston admits that today his own thinking is shaped by a number of talks he gave immediately after the war. Being the only person to have seen all three bombs — the test bomb,

the Hiroshima bomb and the Nagasaki bomb — go off during World War II, he was in great demand as a speaker at church meetings and women's groups, and was invited to speak at the Commonwealth Club in San Francisco. By that time it had become obvious that the bomb was a world concern.

He said that since then concern has grown geometrically, to the point that there is now an active worldwide anti-nuclear movement working against the bomb's deployment. Johnston said his thinking has changed somewhat, but most of his basic ideas remain the same as when he was talking to church groups.

"Nuclear warfare has now completely dominated people's thinking, perhaps more than it should," he said. His opinion is that the stockpiling of nuclear weaponry by some of the major powers is overkill when you take into consideration the amount of money spent on it.

"Modernizing the weaponry is necessary, and that is one reason why they should continue to produce them," he said.

"Often the result of a military test or whatever will turn out to be the opposite of what we think. Then we must ask ourselves whether this is stabilizing or destabilizing.

"If we have a nuclear weapon which is 10 years old, can we be sure it will work? If you're not sure something will work, then it can make you somewhat trigger-happy, so you think, 'We'll have three times as many just to make sure.'"

Johnston describes it as "sheer madness" to spend more than any appreciable fraction of our money on anything above local police forces and peacekeeping issues that are closer to home.

He believes that it will take strong provocation indeed to spark a nuclear war between America and the Soviet Union, but he is worried about the possibility of such a war beginning inadvertently.

Johnston, however, believes that manipulation of science for purposes of war is inevitable, though not really justifiable. "When your back is against the wall, and your existence is being threatened, you really will use anything. My general feeling is that if we're going to have scientific weapons, then nuclear weapons may not be the worst of these."

And is there an answer to the nuclear arms problem?

"The only way I can see hope for a peaceful world is if people's hearts are changed inside. In view of what the Scriptures say, I don't expect to see the millenium ushered in by people being more forgiving with each other, or even by the whole world becoming Christian.

"If, because of man's sin, the whole place is wiped out, then I know I'm being obedient of what the Lord wants me to do, and what better can I do?"

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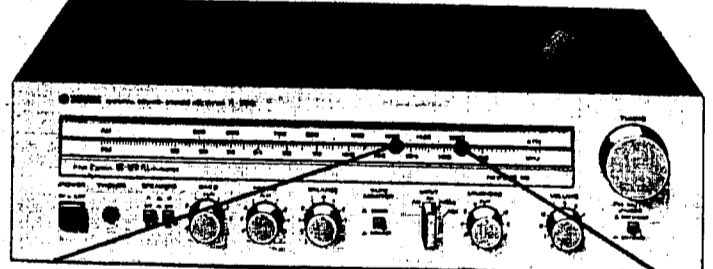
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WSU registers 16,000 students

Washington State University registered approximately 16,200 students at its mass registration Thursday and Friday.

This unofficial total is down about 350 from the fall of 1982, but is running at the projected level and may go higher, according to admissions director Stan Berry.

Freshman enrollment is down by 200 students over fall 1982, but graduate student enrollment will be up by about 150 over last fall, according to Berry.

Classes began at WSU Monday. Starting next year WSU's registration will coincide with fall registration at the University of Idaho.

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Rick Springfield Little River Band. I'm going to Spokane to pick mine up. Do you need any? Info, call Kevin 882-8700 or Chris Holt, 885-7520.

Free U begins registration

The Community Free University, the Palouse area's unconventional educational alternative, will start its 37th semester Thursday, when registration is held from noon to 1:30 p.m. at the Neill Public Library in Pullman.

The all-volunteer school, which has classes beginning Saturday, is described in its literature as an "anarchist, non-institution," and offers courses not found in the curricula of more conventional colleges, such as Anarchism for Beginners, Basic Winetasting, Faith and Life, Massage for Lovers, Nuclear Arms and Christian Conscience, Self-Subsistence, Soapmaking and Yoga for Daily Life.

Other, more conventional studies include courses on various types of cooking, computers, bicycle touring and maintenance, art and outdoor sports and plant life.

CFU instructor Charlie Brown said although each course requires a \$2 fee and some require additional materials fees, the university is free in its methods of instruction and learning with its less-formalized structure.

The university emphasizes that each instructor is "solely responsible for content, quality and safety of his or her class," and that any liability extends no further than the \$2 registration fee.

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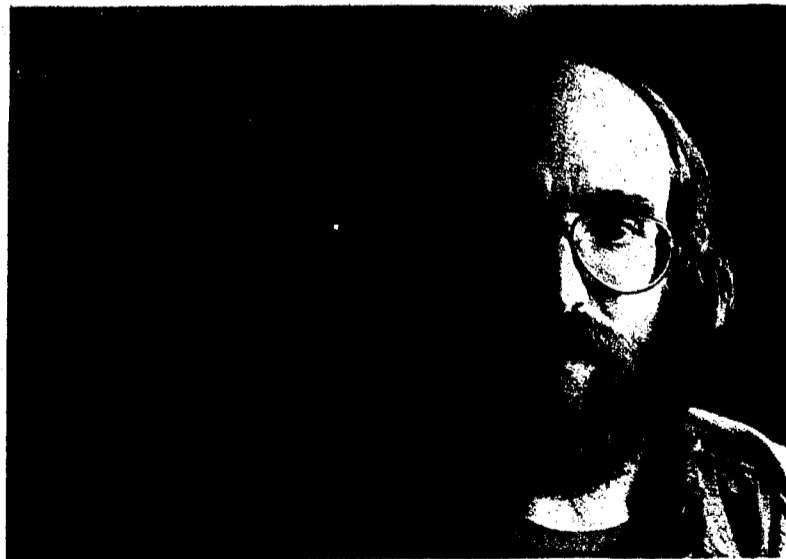
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ASUI PROGRAMS INVITES YOU TO: CATCH A RISING STAR

Campus calendar

Tuesday, Sept. 20

8 a.m.-5 p.m. Safety Seminar, SUB—Cataldo Room.
 8:30 a.m.-9:30 a.m. Facilities Use Committee, SUB—Ee-da-ho Room.
 9 a.m.-10 a.m. Campus Crusade, SUB—Pend O'Reille Room.
 9:30 a.m.-2:30 p.m. UIRA, SUB—Silver Room.
 11:30 p.m.-12:30 p.m. Christian Series, SUB—Ee-da-ho Room.
 noon-2 p.m. Credit Union, SUB—Pend O'Reille Room.
 12:30 p.m. Dilemma of Women in Literature with Barbara Meldrum, Women's Center.

3:30 p.m.-5:30 p.m. C.A.D., SUB—Ee-da-ho Room.
 4 p.m. "Ways To Teach the Bible," Campus Christian Center.
 4 p.m.-5 p.m. Chemical Engineering, SUB—Appaloosa Room
 4:30 p.m.-5:30 p.m. Computer Science 4, SUB—Pow Wow Room.
 5:30 p.m.-8 p.m. Greek Class, SUB—Pend O'Reille Room.
 6 p.m.-8:15 p.m. Delta Chi, SUB—Cataldo Room.
 6:30 p.m.-8:30 p.m. Kappa Kappa Gamma, SUB—Appaloosa Room.

7 p.m.-9 p.m. Aging Class, SUB—Ee-da-ho Room.
 7 p.m.-10 p.m. Creative Travelers, SUB—Pow Wow Room.
 7:30 p.m.-10 p.m. ASUI Senate Pre-Session, SUB—Chief's Room.
 7:30 p.m.-9:30 p.m. Slide Show, SUB—Borah Theatre.
 7:30 p.m.-8:30 p.m. IK Meeting, SUB—Pow Wow Room.
 8 p.m.-9 p.m. 6scat, SUB—Pend O'Reille Room.
 8 p.m.-10 p.m. Cassidy Enterprises, SUB—Ee-da-ho Room.
Wednesday, Sept. 21
 9 a.m.-10 a.m. Campus

Crusade, SUB—Pend O' Reille Room.
 11:30 a.m.-12:30 p.m. Christian Series, SUB—Ee-da-ho Room.
 11:30 a.m.-1:00 p.m. International Feel Guilty Day Potluck, Women's Center.
 1:30 p.m.-3 p.m. Committee on General Education, SUB—Ee-da-ho Room.
 4 p.m. German conversation, refreshments and a short German film sponsored by the German "Kaffeeklatsch" Ad Building—Room 316.
 4 p.m. Staff-Student study, the "Life of Gandhi," Main Lounge—Campus Christian Center.
 6 p.m.-7 p.m. ASUI Senate Pre-Session, SUB—Chief's Room.
 6:30 p.m.-8:30 p.m. Math 50, SUB—Pend O'Reille Room.
 6:30 p.m.-8:30 p.m. Kappa Kappa Gamma, SUB—Appaloosa Room.
 6 p.m.-8 p.m. Delta Chi, SUB—Borah Theatre.
 6:30 p.m.-8 p.m. Pi Beta Sigma, SUB—Spalding Room.
 7 p.m.-10 p.m. ASUI Senate Meeting, SUB—Chief's Room

Thursday, Sept. 22


8 a.m.-9 a.m. Moscow Realty, SUB—Ee-da-ho Room.
 9 a.m.-10 a.m. Campus Crusade, SUB—Pend O'Reille Room.
 11:30 a.m.-12:30 p.m. Christian Series, SUB—Ee-da-ho Room.
 12:15 p.m.-2 p.m. Women in Math, SUB—Silver Room.
 2:30 p.m.-4:30 p.m. Mt. View Ministries, SUB—Pend O'Reille Room.
 3:30 p.m.-4:30 p.m. ASUI Ways and Means Committee, SUB—Ee-da-ho Room.
 6:30 p.m. 10 p.m. IK Meeting, SUB—Spalding Room.
 6:30 p.m.-8:30 p.m. Kappa Kappa Gamma, SUB—Appaloosa Room.
 7 p.m.-10 p.m. Pikes, SUB—Pend O'Reille Room.
 7 p.m. Palouse Unit of the American Fisheries Society.
 7:30 p.m.-11 p.m. Science Fiction Lecture, SUB—Ballroom.
 9 p.m.-11 p.m. Delta Chi, SUB—Appaloosa Room.
 7:30 p.m.-10 p.m. Scholarship Chairmen, SUB—Silver Room.

Tuesday Special
(Good Tuesday, Sept. 20)

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