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The Amplifier - v. 7, no. 12

Associated Students of the Montana School of Mines

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The Montana School of Mines AMPLIFIER

Vol. 11, No. 12

PUBLISHED BY THE ASSOCIATED STUDENTS OF THE MONTANA SCHOOL OF MINES

Friday, April 21, 1961

Lyons Lauds Wild Life

The program from the National Audubon Society, featuring a lecture and colored pictures of the wild life of the Northwest, was presented in a convocation Friday, April 21, at 11:00 a.m.

The guest speaker, C. P. "Chess" Lyons, was born near Regina, Saskatchewan, in Canada, but his family moved to British Columbia a few years later. As a young boy, so much did he love to range the beautiful Okanagan Valley of British Columbia that, "... it became a matter of fine judgement to balance the time spent playing hockey against the grade-passing requirements of school." However, Chess managed to make all the right moves in the best possible combination. He graduated from the University of British Columbia in Forest Engineering.

In later years, his work with the Parks Division of the British Columbia Forest Service took him to many of the most scenic areas of the province. He was so impressed with what he saw that he began writing about it. His published works include books on the historic Fraser Canyon, the Okanagan Valley and Vancouver Island, as well as "Trees, Shrubs, and Flowers to Know in B. C.," now in its third printing. He also compiled a similar work on the State of Washington and has been a frequent contributor to newspapers and magazines.

As officer in charge of special projects in British Columbia's Department of Recreation and Conservation, Mr. Lyons has recently entered a new field of interest. He supervised the clearing made necessary by the giant hydro-electric project of the Aluminum Company of Canada. He designed and supervised the "Stops of Interest" program along the highways of British Columbia. He is currently involved in the restoration of the pioneer goldmining town of Berkerville in the Cariboo. His memberships include the Association of British Columbia Foresters, the American Institute of Park Executives and the American Association of Historic Site Public Officials.

Aylward Lectures Newman Club

Rev. James Aylward's lecture on Tuesday, April 11, was the last of the Newman Club's scheduled marriage talks. Father Aylward, who is now chaplain at the Community Hospital, has his degree from Jung Institute, one of the foremost schools of psychology.

With his quick wit and vast knowledge of human nature, Father was easily able to acquaint his audience with the psychological adjustments necessary in marriage.

Coming Events

APRIL

- 21—Copper Guard Hayride.
- 21—Convocation, Library Museum Building.
- 22—Baseball, Western at Butte.
- 24—Student Wives Bridge Club, Coed Room, 7:30 p. m.
- 29—Baseball, Western & Carroll at Dillon.

MAY

- 3—M-Day
- 6—Baseball, Northern & Carroll at Havre.
- 7—Senior Tea.
- 8—Student Wives Bridge Club, Coed Room, 7:30 p. m.
- 9—Civic Concert Orchestra, Museum Hall, 8 p. m.
- 10—Student Wives Meeting, Coed Room, 8 p. m.

Student Victim Of Accident

Owen T. Dickerson, freshman from Troy, Montana, received a gunshot wound, Sunday, April 9, as a result of an accident taking place while target shooting. James L. Mattison freshman from Richland, Washington, who with Phillips Dunten was also target shooting, fired his .22 at a tin can about 120 yards away. At that moment, Dickerson, who had been crouched in a shallow gulch with Robert Beers, putting targets on a plank, stood up. The slug struck him in the back of the head. He was taken to St. James Community Hospital and from there he was taken to Missoula to have the bullet removed. His condition, Monday, April 10, was described as good.

Mineral Dressing Department Wins E-Day Award

The townspeople of Butte and the surrounding area were given a concentrated view of the School of Mines during the Engineering Days program April 15 and 16.

The Program Committee passed out the E-Day programs containing a list of the departments' displays and exhibits, a map of the campus, and the movie schedule.

After hearing the lectures and seeing the exhibits and demonstrations by the students, the public was invited to have coffee and cookies served by the Coed Club with the assistance of Mrs. Mike Maddocks in the Student Union Building.

Featured Sunday was an Air Force jet on a mobile display.

KOPR interviewed students and teachers for broadcasting and advertising concerning the E-Day (Continued on page 3)

Lester G. Zeihen Named To MSM Advisory Board



Lester G. Zeihen of Butte was appointed by Governor Donald G. Nutter to serve on the local Executive board of Montana School of Mines for a three-year term which began Tuesday, April 18, and will end the third Monday in May, 1964. Mr. Zeihen succeeds George Haney.

Lester Zeihen is a graduate of Montana School of Mines and is prominent in alumni activities of the school as well as in community projects. He is director of geological research for the Anaconda Company.

Other members of the local advisory board are Howard E. Johnson and George E. Richardson.

Paul Harvey To Deliver Commencement Address

Paul Harvey will be the speaker at the 61st commencement of Montana School of Mines, Dr. Edwin



PAUL HARVEY

Indirect Costs of Research to Be Investigated

The National Science Foundation is undertaking a comprehensive study of the indirect cost rates of federally sponsored research and development conducted at colleges and universities. Earlier analyses of the subject of indirect costs of research and development in colleges and universities have been made by the National Science Foundation for the years 1953-54 and 1957-58. This study, dealing with data for the year 1959-60, differs from that of the previous years in that more consideration is given to the details of college and university operating procedures and practices with regard to the indirect costs of research and development.

The study will be based wholly upon data from primary sources. Schedules for the collection of the needed data will be mailed to approximately 275 colleges and universities engaged in research and development sponsored by the Federal Government. The analytical complexities of the problem made it necessary to devise two types of schedules. One type of schedule will go to some 135 institutions with relatively large programs of sponsored research and development and the second type of schedule will go to 140 schools with Government-sponsored R&D programs of less than \$250,000 per year.

Several ways of measuring the indirect cost rate of research and development will be compared both as to quantitative differences in the results and as to conceptual significance.

In the planning of this undertaking, the National Science Foundation has had the assistance, advice, and encouragement of the Committee on Governmental Relations of the National Federation of College and University Business Officers Associations and of many fiscal and administrative officers of colleges and universities. In addition, various Federal agencies assisted in the development of the schedules.

This study may form the basis for policy determinations by the Federal Government on the problems of indirect costs of research and development. Accordingly, the National Science Foundation solicits the help of each institution in filling out the schedules as accurately and promptly as feasible. A target deadline for the receipt of the schedules by the Foundation is June 1, 1961.

G. Koch, president, has announced. The title of his address is, "All Men are Not Created Equal". Harvey, a well known commentator and news analyst for the ABC network, has been broadcasting nightly except Saturdays over station WENR, Chicago, since 1944. He has also written a column for General Features Corporation since 1954.

A multi-engine pilot who flies between assignments, Mr. Harvey is the author of three books and numerous magazine articles on aviation. In December, 1941, Harvey was in Hawaii on a radio news assignment, and is still chagrined because he sailed for the U.S. two days before the Japanese attack. He served for 15 months as a B-25 pilot in the Pacific during WW II, and was discharged as a captain.

Mr. Harvey is the holder of many honors and degrees, including the gold medal Freedoms Foundation, 1950, 51, and 52; American Legion radio award, 1952; Veterans of Foreign Wars certificate of merit, 1953; the Bronze Christophers Award, 1953; and the Oklahoma Hall of Fame, 1955. In addition to these, a Doctor of Laws degree, Honoris Causa, will be conferred upon Mr. Harvey during the commencement exercises.

Students are asked to take note of the fact that the date for commencement exercises has been moved up to Sunday, June 4, at 1:00 p.m. This is a change from the former date of Monday, June 5. Further details will be given at a future time.

Coed Club Active During E-Day

During E-days, April 15 and 16, the Coed Club also took part in the traditional engineering days program by serving refreshments.

Members of the Coed Club served coffee and cookies in the Copper Lounge between 1:00 p.m. and 10:00 p.m. on both Saturday and Sunday afternoons.

Those taking part included Tony Stefanich, Coed Club president, Sandy Mannix, vice-president, and members, Charlene Sivalon, Betty Pryor, Amy Jacobson, Sharon Breen, Mary Ann Becker, Kari Keup, Ann Perry, Jo Ann Kriskovich, Bernadette Burke, and Sue Hayes.

Miller to Speak For ASC at Mines

Dr. Foil A. Miller of the Mellon Institute, Pittsburgh, will speak to the Montana Section of the American Chemical Society on Thursday, April 27 at 7:30 p.m. in room 216 of the Metallurgy Building at Montana School of Mines. The public is cordially invited.

Dr. Miller is engaged in fundamental research at the Institute. He will discuss, "New Horizons in Infrared Spectroscopy."

Foil A. Miller was raised in Wisconsin. His college education was obtained at Hamline (B.S.), the University of Nebraska, and Johns Hopkins University (Ph.D.). Following two years of post-doctoral work at Minnesota, he taught physical chemistry for four years at the University of Illinois. In 1948 he went to the Mellon Institute as head of the Spectroscopy Division.

His research interests are in molecular spectra, particularly in (Continued on page 3)

The Amplifier

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EDITORIAL

Spring is here (according to the calendar)!!!

In Butte, it may be a while before the weather cooperates with the calendar, but baseball and track teams are in evidence throughout the city. Children are seen with kites and roller skates, rushing the season perhaps, but nevertheless they're there. Occasional flowers can be seen blooming in secluded places, usually well-sheltered from the elements. There may be a trace of green in some people's lawns, but there is one place in this city where the grass is not, by any stretch of the imagination, turning green. That place is the campus of the Montana School of Mines. It seems that the students at the School of Mines have learned one certain lesson too well; that is that the shortest distance between two given places is a straight line. It matters little to these students that this straight line crosses the lawn. As a result, the grass is not green on the School of Mines campus, and there doesn't seem to be much hope for it, unless this is taken to heart by the violators. Walk on the streets. There, I'll grant you, you might be run over, but after all which is more important, your life or green grass?

An Open Letter To the Editor Of The Montana Standard-Post

by James H. Albertson

The time has come, I believe, when the sane, the sober, the genuine liberal, the honest conservative—all those old fashioned people who still adhere to the democratic ideal—for them, the time has come to speak up.

At present, as everyone in the city knows, we are suffering a deluge of films whose background, authorities inform us, are of a most questionable nature. And, as if this were not enough, these films are accompanied by the mouthings of individuals whose educational upbringing in no way qualifies them to pose as authorities in these fields.

Now, neither the sane nor the sober can be disturbed over the fact that we suffer from political quackery. Man, since society began, has so suffered. Yet I now think we have just cause for a moment of alarm, for in the past the American citizen could turn to the editorial page of the better newspapers and there he could find an appraisal of the situation, an appraisal which may have been extremely liberal or extremely conservative, an appraisal that the reader might not have liked, but none the less it would be an appraisal which was in keeping with the American tradition. It would not have been an appraisal in terms of secret societies, an appraisal in terms of an organization that refers to an honest, conservative (whether-you-like-him-or-not) ex-President as a sellout to the Commies, an organization that damns Civil Rights which are no more than a latter-day extension of the Bill of Rights, an integral part of the American Constitution.

Where are we, Mr. Editor, when we can read on the front page of last Monday's *Butte Daily Post* that the United States Army has relieved a General Walker of his command for his John Birch activities, and then we can turn to the editorial page and find the virtues of this organization extolled? I ask again, where are we?

Are you suggesting that the United States Army is infiltrated by Communists?

That Ike is really a sellout?

That Civil Liberties are to be discarded, thus making Democracy a dead horse?

I would like to think that you were simply echoing the conservative position, but both of us know that such is not the case, for a vast number of conservative strongholds in the nation have come forth and attacked the John Birch Society.

Let's look at the record:

1. Religious organizations by the score.
2. The United States Military Forces.
3. Time magazine
4. The Los Angeles Times
5. The Seattle Times
6. And even (God bless them just a little bit) the National Association of Manufacturers, which is likely the most conservative stronghold in America.

My point is obvious: this is not a war between the liberal and conservative forces in America—far from it. Instead it is reminiscent of those black days in Europe before World War II, when the extreme right and the extreme left squeezed out the middle. And now we have only Eichmann, standing in a glass box, a living symbol of what such political quackery can lead to when condoned by those in responsible positions.

No, Mr. Editor, you were wrong when you said the John Birch Society had scared hell out of the Commies. Have you forgotten that the Communists thrive on fear, distrust, suspicion (Was Ike really a sellout to the Commies? The man in the street may start to ask).

No, Mr. Editor, the John Birchers haven't scared hell out of the Commies. They love it!

But what you have done, Mr. Editor, is to scare hell out of the sane and sober citizens of this community.

Mahagin Presents Metallurgy Seminar

On Wednesday, April 5, Mr. Don Mahagin presented a seminar for the metallurgy department. The title of the discussion was "Principles of Irradiation" and dealt with nuclear reactions and the effect of intense radiation upon metals.

Mr. Mahagin stated that metals may be irradiated in a variety of ways. Some of these methods employ alpha particles, beta particles, protons, deuterons, positrons, gamma rays and neutrons.

In general Mr. Mahagin's talk dealt mostly with neutron bombardment.

Because of its fairly large mass and its lack of electrical charge, it penetrates the metallic lattice where it effects some change which can be detected on a microscopic scale. In general these changes are (1) the creation of interstitials and vacancies (2) the introduction of highly localized temperature increases.

Mr. Mahagin went on to describe what has been learned concerning irradiation of metals commonly found in nuclear reactors. Structural materials, carbon steels and stainless steels were those mentioned by Mr. Mahagin.

In conclusion Mr. Mahagin stated that it should be noted that not all irradiation of metals is detrimental to the field of metallurgy.

The talk was followed by a discussion period during which Mr. Mahagin answered questions from the audience.

New Tests for Law School Candidates

Princeton, N. J.—In the future, prospective law students will need to pay more attention to the development of their writing skill and their knowledge of this country's cultural background.

Beginning next November, the Law School Admission Test, now required by 86 of the nation's law schools, will include separate tests of writing ability and general background. This announcement was made today by the executive committee of the Law School Admission Test Policy Committee at the Conference of Western Law Schools, meeting at Stanford University, Palo Alto, California.

The 80-minute writing ability test is designed to measure the student's command of grammar and diction as well as his ability to recognize verbose or unclear writing. It will test his skill in organizing ideas and require him to demonstrate his competence by re-writing and editing prose passages. The main purpose of the test of general background is to measure the student's awareness of the intellectual and cultural context in which the law functions. The test is designed to indicate the candidate's understanding of important ideas, events and cultural developments of the past and present. It will include 90 questions—30 in each of the three fields of humanities, science and social science.

In its present form, the Law School Admission Test is administered in a single half-day session and is designed to measure aptitudes closely related to specific aspects of the study of law. With the addition of the two new tests, the scope of the test will be broadened to include the measurement of achievement in the areas of writing and knowledge of cultural background and it will occupy a full day. Separate scores will be reported on the aptitude test, the writing test, and the test of general background.

The Law School Admission Test is administered four times a year in November, February, April, and August at test centers throughout the United States and abroad. Educational Testing Service of Princeton, New Jersey, constructs, administers, and scores the examination for the Policy Committee of the Law School Admission Test.

Who's Who on Campus



Kari Keup

Coed personality on campus this week is Kari Keup. Kari was very active at Big Sandy High School from which she graduated in 1960. She was editor of the paper, vice-president of the senior class, and a delegate to Girls' State. Kari is very active on the MSM campus, also. She is a member of the Magma and Amplifier staffs, International Club, Glee Club, and Coed Club. She also teaches Sunday School at the Episcopal church.

Besides finding time for her art work and other hobbies, including reading and Werner.

Kari is a freshman at the Mines enrolled in the General Course. She is carrying a 20-hour credit load and her subjects include Spanish, Sociology, History of Civilization, English Literature, English Composition, Publications, and P. E. She made the honor roll first semester.

For her future plans, Kari would like to teach in Syracuse, New York, and later travel overseas.

MSU not a U —Fiedler

"We do not have a university here," Leslie Fiedler told Montana Forum, Friday noon, in answer to his own questions of: "What is a university? Do we have one here?"

"A university is a unified community in a way which we do not have. The faculty members have first loyalties to their departments and courses. A student upon entering the university is immediately inducted into a living group, of one nature or another, and becomes bound to it and its members."

"Students sustain past memories and exist unchanged from day of entrance. There exists no feeling of one. Loyalty is lacking. Students cheat, crib, plagerize—all this in a boastful manner. No sense of obligations or creativity, only success and self loyalty," Fiedler said.

U Should Be A Community

"A university should be a unified community dedicated to the ideals which bind everyone. All gathered to pursue knowledge, fearing only ignorance and error."

"The attitude should be that of respect and excellence. Students and faculty spend time at study, but how many of them understand what reading really is. Few students go to the library to browse among the shelves. When damaged and marred books appear it is a sign not of a university, but rather of a barbarous community.

"The reason for present conditions," Fiedler said, "is the university has failed to establish the lead. It is following rather than leading public opinion. Delicate and sensitive instruments check state feeling and the university, in turn, follows where it thinks the people in the state want to go."

"The university, or any university," he said, "should educate everyone, faculty, students, and the state.

"We must all explain, stand up, and say what it is and what it needs, and what it must be," he concluded.



Werner Raab

This week's campus personality, Werner Raab, was born and raised in Prien, Germany. He came to the United States in October, 1958, and made his home in Eatontown, New Jersey, where his parents now reside.

Werner is now a sophomore enrolled in the Geological engineering course with a Petroleum option. He carries the regular sophomore 18-hour credit load and plans to take post graduate work after graduation. He is interested in the study of glaciology and would like to do his post-graduate work in that field.

Werner's hobbies include photography, painting, and hiking. He is a member of Sigma Rho, International Club, and the Magma staff.

When asked his opinion of the School of Mines, Werner described it as "a big heap of unused potentials."

MSM Faculty Attend AC Meet

The Academy of Science will meet at Great Falls College on April 21 and 22. Those invited to attend are teachers of science and mathematics in high schools and colleges throughout the state. Those attending from the School of Mines are from the Mathematics Department: Dr. A. J. Smith, Professors W. A. Catenaro and E. S. Satter.

The objectives of the Montana Academy of Sciences are to encourage interest and participation in the sciences, and to promote public understanding of science and its contributions to society. The Academy was incorporated as a non-profit and educational organization.

Any person, organization, or institution may be admitted to membership. The membership is divided into six sections: Biological Sciences, Botany, Physical Sciences, Social Sciences, Teaching of Sciences, and a Zoology Section. Members of the various sections give talks on their phase of work, on advancements made, and on conclusions they have drawn because of these advancements.

Next year the School of Mines is to be the host for the Academy's annual meeting.

Benefit Dance Huge Success

The ASSM-sponsored benefit dance for Ed Erickson was held Friday, April 7, in the Copper Lounge.

Excellent music was provided by the Aces of Rhythm, who donated their time, with the permission of the musicians' union.

About \$250 in donations was received and the dance was well-attended.

Members of the student council who made plans for the dance were Bill Thompson, Bill Pickard, Bill Tiddy, Pete Gross, Dan Rovig, Webb Garey, and advisor, Professor Kohler Stout.

Coach Cullen Picks Baseball Squad

After an intersquad game on Saturday, April 8, Coach Bill Cullen picked the team to defend the MCC championship that the Orediggers won last year.

Members of this year's squad will be Dave Bennett, John Ceserani, Pete Gross, Gary Hauder pitchers, Cam Brown, Dick Crnich,

Theta Tau Holds April Initiation

At a closed meeting on April 6, Theta Tau held a ballot for election of new members. Four new members were voted into Psi Chapter of the national fraternity.

New members initiated on April 13 were Mike Hines, Ed Davis, Bill Bayliff and Marvin Senne. Following the initiation, a party was held at the Ranch House.

Also discussed at the meeting were plans for the Interfraternity Council to be put back into practice. It was decided that the officers of Theta Tau would meet with the officers from the other fraternity to discuss plans for its operation.

Bob Martens gave a report on the annual Founders Day get-together and stated that he was going to go up to Echo Lake to make arrangements for this event. May 5, 6, and 7 have been tentatively set as the dates.

During the latter part of March the members of Theta Tau sent out their annual news letter. This letter was sent to graduates of MSM who were members of Psi Chapter while at the Mines.

American Legion Film Is Shown

"Communism on the Map", a film strip circulated by the American Legion, was shown in the physics lecture room Tuesday, April 11. Dr. S. L. Groff of the Bureau of Mines and Geology conducted the half-hour feature.

The film aimed to caution America against the growing threat of Communism. Dr. Groff was invited to show the picture by the Circle K club.

Bob Dickenson, Bob McCarthy outfielders, George Bronson second base, Mike Hines, Don Olson catchers, Tom Liebsch first base, Frank Quilici third base and Dan Tribovich short stop.

The Orediggers' first game is scheduled against Western and is to be played in Butte. This will be a conference game and is set for nine innings.

During the time before the game Coach Cullen planned to work on batting and infield practice.

Glee Club

At a regular meeting of the Glee Club on Friday, March 24, election of officers was held. The following officers were elected to serve for the remainder of the year. President, Bill Coghlan; Vice-President, Janet Richardson; and Secretary, Betty Pryor. The Glee Club is practicing regularly and is planning to have a concert around the first of May.

Fixtures Fastened For SUB Solidarity

If you have tried to take any of the tables from the Copper Lounge home lately, you have probably noticed that they won't budge. It seems that all the fixtures in the lounge, from the tables and benches in the main section of the building to the coat racks (and even Mike's refrigerator) have been permanently placed in position. This inconvenience to the students who usually re-assemble the tables to accommodate large groups of friends who come to the lounge together is a result of the conditions of a loan which made possible the construction of the building.

Since the building and all the fixtures were purchased on the loan, they must all be attached to the building to prevent the use of them in other buildings on campus.

This is a federal law so it looks as if we will have to put up with immovable fixtures until at some future date the Copper Lounge is paid for, and we will once more

MILLER TO SPEAK—

(Continued from page 1)

the use of infrared and Raman data to solve problems in molecular structure. About 30 papers have resulted from this work. He gives a graduate course on spectroscopy at the University of Pittsburgh, and each summer helps present a short course on infrared at Massachusetts Institute of Technology.

Dr. Miller is an editor of *Spectrochimica Acta*. He has been chairman of the Gordon Conference on Infrared Spectroscopy (1958), and president of the Coblenz Society, the national organization of infrared spectroscopists (1959-60). In 1957-58 he was recipient of a Guggenheim Fellowship for study in Zurich. He has served the Pittsburg Section of the American Chemical Society as chairman, councilor, and director.

be able to move them around as we wish.

Up screws and away! (And all that old rot.) Oops! There's a hole in the floor!

MINERAL DRESSING—

(Continued from page 1)

projects and the MSM curriculum.

The Alumni Association also participated in the E-Day program by contacting high school seniors about E-Day and giving them badges when they arrived. The Alumni Association had an information desk set up in the Copper Lounge.

One of the highlights of the Engineering Days was the awarding of prizes to the departments with the most effective overall displays. The judges were Rabbi Kurt and Mr. Gordon Brox. The Metallurgy Department and the Physics Department tied for second place prize: \$15 each, and the Mineral Dressing Department won first place of \$25.

This year's E-Day was considered a success by all who participated in its organization and carrying-out and by all who were spectators and visitors.

Student: "You are the initiative for all my writing."

Teacher: "What do you write?"

Student: "Jokes."

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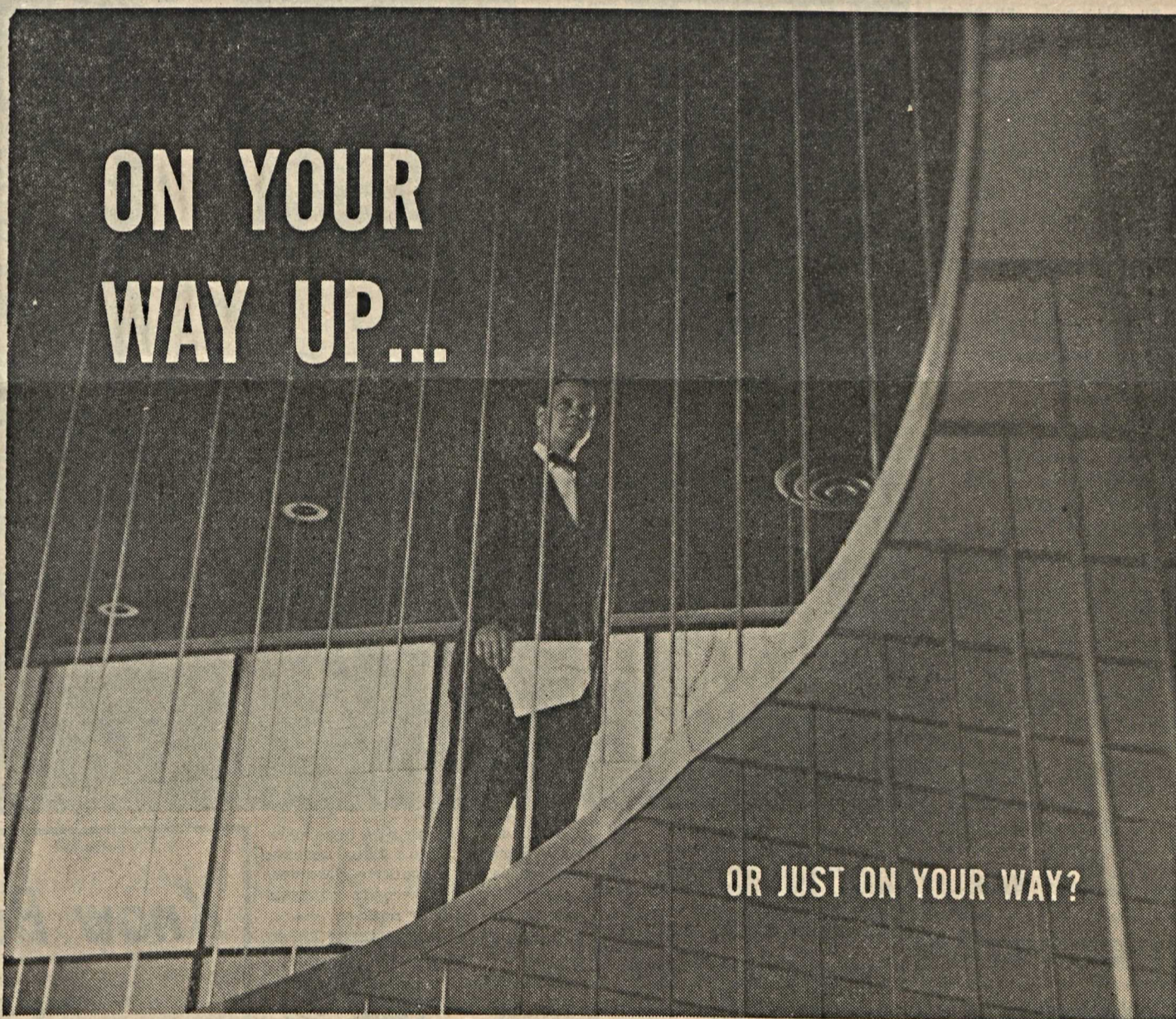
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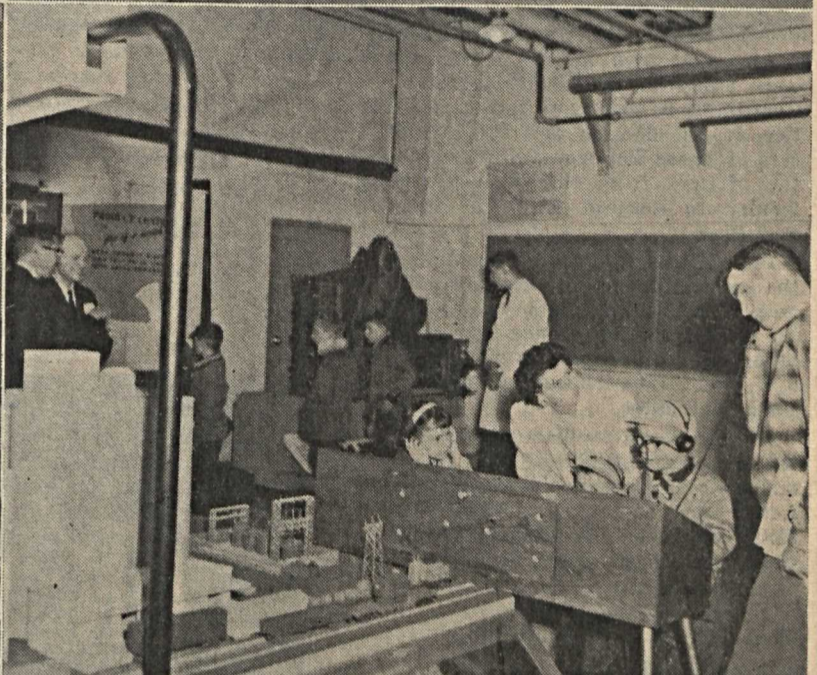
The Peace Corps has been established by Executive order of the President. Legislation has been requested to continue this organization. The activities of the Peace Corps have been covered rather completely by the press, radio, and television. Its relationship with the Selective Service System has been indicated but a statement of this relationship seems advisable.

The Universal Military Training and Service Act, as amended, is flexible enough to provide deferment for members of the Peace Corps without amendment of any kind. In other words the relationship of the Selective Service System with registrants who become members of the Peace Corps can be handled administratively.

The power to defer registrants who perform functions in the national health, safety, or interest now exists. The establishment and operation of the Peace Corps is in the national interest. So the classification of registrants in the Peace Corps can be handled as any other registrant engaged in activities in the national health, safety, or interest. They will, of course, enjoy the right of appeal shared by all registrants of the Selective Service System.

Soviet veterinarians have developed an electronic apparatus that can tell in 30 seconds how much fat is on a pig . . . 40 states now have programs of unemployment compensation which pay out for half a year or longer . . . All babies born at on San Francisco hospital between Christmas Eve and January 1 are sent home in stockings . . . Sign in a bar: "If you're dringing to forget, please pay in advance" . . .

Scenes from the 1961 E-Day



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209 W. Park Butte

A radio station phoned 1,000 men asking to whom they were listening. Eighty per cent said their wives.

Railroad crossing sign near Colorado Springs, Colo.; "The average time it takes a train to pass this crossing is 14 seconds whether your car is on it or not."

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