





## Wilhelm Wins AL Earned Run Title With 2.19

NEW YORK (AP)—Hoyt Wilhelm, Baltimore's veteran knuckleballer, won the American League earned run championship the past season to become baseball's first pitcher to win the title in each major league.

Wilhelm gave up only 55 earned runs in 226 innings for a 2.19 earned run average in 1959, figures compiled by The Associated Press showed Tuesday. He won the National League crown in 1952 with a 2.43 mark while relieving for the New York Giants.

The Orioles' right-hander had 15 victories and 11 losses the past year, pitching in 32 games with 27 starts.

Bob Shaw of the Chicago White Sox finished second with a 2.65 average. Shaw yielded 68 unearned tallies in 231 innings. He won 18 games and lost 6.

Camilo Pascual of Washington was third with 2.67. The fast-balling right-hander won 17 games for the last-place Senators and gave up 71 earned runs in 239 frames.

Art Ditmar of the New York Yankees was fourth with a 2.90 average. He was followed by Jerry Walker of Baltimore, 2.92 and Billy O'Dell, also of the Orioles, 2.94.

## Hackbart, Defense Wisconsin Strongpoints — Badgers Boast Rugged Line

By JIM TUCKER  
Staff Writer

Iowa's hopes for a victory over Wisconsin Saturday may depend on how effectively the Hawks can contain the passing and running of Wisconsin's all-American quarterback candidate, Dale Hackbart.

Hackbart, weighing 200 pounds, is fast and powerful enough to make Wisconsin's ground game threatening, and he is also an outstanding passer. His passing was not good against Purdue last week, but his past record speaks for itself. In 1958, Hackbart scored nine touchdowns as he compiled a total of 391 yards and a 3.9 average in rushing. In addition, he passed for four more touchdowns and 641 yards.

In addition to Hackbart, Wisconsin has an unusually large backfield, averaging just under 200 pounds. Ron Steiner and co-captain

Bob Zeman are the Badgers' number one halfbacks, and Tom Wiesner fills the fullback position. Steiner at 174 is the only man in the starting lineup who weighs less than 200 pounds.

Wisconsin's backfield has been slightly altered this year by Coach Milt Bruhn to reflect the influence of the "pro" type offense that the Badgers are using. Under this offense, the left halfback is termed the "leftback," the right halfback is termed the "wingback," and the fullback is the "rightback."

Wisconsin was supposed to have one of the nation's better defensive teams this season, but so far the Badgers have not lived up to their expectations in that department. Stanford scored twice against them, and Purdue took complete command over the Wisconsin defense, scoring three touchdowns.

The potential is still there, however, as the Badger line averages 214 pounds. The strongpoints of their defense are tackles Jim Heinke and Dan Lanphear, ends Henry Derleth and Jim Holmes, and guards Ron Perkins and co-captain Jerry Stalcup.

Stalcup, a second team all-American last year, also plays the linebacker position. To balance out the Wisconsin defense, Hackbart is said to be equally efficient on defense as well as being an outstanding quarterback.

Wisconsin's major weaknesses are poor speed in the line and lack

## Hawks Rated 9th By AP; LSU On Top

Iowa gained one notch in the weekly Associated Press football poll this week after walking over Michigan State 38-7 Saturday.

The Hawkeyes received five first place votes and 357 total points for a ninth-place ranking.

Louisiana State topped the poll for the 13th straight time as they stretched their winning streak to 16 games.

They are attempting to become the fifth team to repeat as national champion since the poll was started in 1936. The predecessors were Minnesota (1940-41), Army (1944-45), Notre Dame (1946-47) and Oklahoma (1955-56). L.S.U. wrestled first place from Army on Oct. 14, 1958 and has been unshakable since.

This week L.S.U. grabbed 83 of the 139 first-place votes cast by sports writers and broadcasters to head a top 10 list.

Eleven teams drew votes for first place but L.S.U. clung to No. 1 with 1,233 points — 217 more than second-place Northwestern. Points are given on the basis of 10 for a first-place vote, nine for second, etc.

Newcomers to the select group are Syracuse and Penn State. Syracuse smashed Navy 32-6 last Saturday and Penn State stunned Army 17-11.

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## Basketball Makes Early Debut As Hawks Open Drills Thursday

Basketball is back, modestly making its early bid for sports attention, as the University of Iowa squad opens practice Thursday for its 24-game season.

Under Coach Sharm Scheuerman for the second season, the Hawkeyes have three regulars from the even break team which tied for fifth in the Big Ten standing a year ago, plus several good sophomores and some fast-improving squad members.

The squad of about 20 players will have about one month and a half to prepare for the schedule which starts vs. Evansville College of Indiana there Dec. 1.

Regulars of 1958-59 returning are Nolden Gentry, the fine rebounding and play-making center; Bob-

minor letter center.

Among the better sophomores are Don Nelson, 6-5 center; Dave Maher, 5-9 guard; Gary Lorenz, 6-2 guard; Joe Novak, 6-0 guard; and Mike Woods, 6-4 forward.

Scheuerman will miss the two high scorers of last season, Dave Gunther, who averaged 21.9 points per game as a senior; and Clarence Wordlaw, the other forward who had a 14.5 average. Gunther, most valuable for three years, was Iowa's best rebounder in 1958-59.

Iowa's first home game is with Southern Methodist Dec. 5.

of depth at center and at the end positions. All other positions, however, are unusually strong in depth.

Rated as a top contender for the Big 10 title this year, Wisconsin will be seeking revenge Saturday in their game against Iowa, for it was the Hawkeye team of 1958 which handed the Badgers their only defeat and took the Big Ten championship and the Rose Bowl bid away from them. Iowa won last year's game with a great second half surge by a score of 20 to 9.

Iowa has defeated Wisconsin four times in the past five years, but in the over-all series, the Badgers hold a 23 to 13 lead.

## Intramural Scoreboard

**TODAY'S SCHEDULE**

Volleyball  
Fenton vs. Seashore  
Kuever vs. Fenton-Seashore winner  
Fischer vs. Steindler  
Thacher vs. Baird  
Ensign-Stieindler winner vs. Thacher-Baird winner  
Bordwell vs. Trowbridge  
Van der Zee vs. Bordwell-Trowbridge winner

Touch Football  
Van der Zee vs. Mott  
Sigma Chi vs. Sigma Pi  
Phi Kappa Theta vs. Lambda Chi Alpha  
Lower E vs. South Tower  
Lower E vs. East Tower

**TUESDAY'S RESULTS**

Volleyball  
Acacia 2, Phi Delta Theta 1  
Delta Upsilon over Lambda Chi Alpha ( forfeit )  
Delta Upsilon 2, Acacia 0  
Sigma Alpha Epsilon over Sigma Pi ( forfeit )  
Sigma Alpha Epsilon 2, Phi Kappa Pi 0  
Phi Delta Theta over Lambda Chi Alpha ( forfeit )  
Bush 2, Mott 1  
Calvin 2, Bush 1

Touch Football  
Tudor Hall 6, Upper C 6  
Wunder Hall 20, North Tower 0  
Beta Theta Pi 7, Phi Kappa Phi 0  
Phi Gamma Delta 70, Theta Xi 0  
Steindler 19, Ensign 6  
Seashore 26, Thacher 0

Freshman basketball coach Bob King requests that all freshmen men interested in going out for the freshman squad report to the North Gym of the Fieldhouse at 4 p.m. Monday, Oct. 19.

by Washington and Mike Heitman, senior guards.

Iowa also will be helped by Ron Zagar, who became ineligible for second semester play last season after making the starting lineup at guard. Bobby Carpenter is another junior who will help at guard and Seniors Frank Mundt, 6-8 center; and Pete Schebler, forward, are other welcome returnees. Dennis Runge is a 6-9

Last Saturday, I returned to West Point and suffered for two old coaching friends, Penn State's Rip Engle and Army's Dale Hall. Coaches Hall and Engle, as if they didn't have enough to do directing their teams, had been compelled to keep track of the player traffic caused by the new "wild-card" substitution rule.


The traffic-direction handicap almost cost Penn State the game. The "wild card" rule also prevented an Army team, seriously depleted by injuries to key men and without depth in many positions to begin with, the use of its vital passer, Joe Caldwell, in the crucial closing minutes of the first half. Caldwell had used up his two charged entries for the second period.

Late in the first half, with Penn State leading, 10-3, a pass interference penalty gave the Nittany Lions a first down on the Cadet four-yard line. But before they could put the ball in play, they were penalized 15 yards to the Army 19 for an illegal substitution.

Apparently, Engle had become understandably confused by the "wild-card" rule—as many other coaches have and will continue to be, until it is rescinded. Rip was

**RED BLAIK . . .**  
on football

'Wild-Card' Substitution  
A Poor Enactment



**PIZARRO WINS**


SAN JUAN, Puerto Rico (AP)—Juan Pizarro, Milwaukee's left-handed pitcher now playing for Santurce in the Winter League, held San Juan to three hits Monday night as his club won 10-2.

The top 20 teams:

1. Louisiana State (83).....1,223
2. Northwestern (10).....1,006
3. Texas (10).....958
4. Georgia Tech (6).....918
5. Mississippi (6).....713
6. Purdue (5).....575
7. Southern California (7).....559
8. Syracuse (2).....386
9. Iowa (5).....357
10. Penn State (4).....207
11. Auburn (1), 165; 12. Arkansas 145; 13. Illinois 91; 14. Tennessee 79; 15. (Tie) Clemson and Southern Methodist 64; 17. Air Force 55; 18. Washington 43; 19. Florida 38; 20. Pittsburgh 36.

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# Analyst Says Sharp Headlines Put Ring In Reader's Nose

By JOE SHERIDAN  
Written For The Daily Iowan

Bright, sharp headlines can boost readership of a news story by as much as 50 to 100 per cent, one of the nation's leading news readership analysts said here last week.

Carl J. Nelson of Chicago, a 1931 SUI journalism alumnus, stressed that point in a slide-talk on "How to Increase News Readership."

Nelson heads a firm that conducts extensive studies on "what newspaper readers read and like" for many of the nation's largest newspapers.

Speaking to students and educators in the Library's Shambaugh Auditorium, Nelson emphasized that the "copy desk of a newspaper can make or break a story."

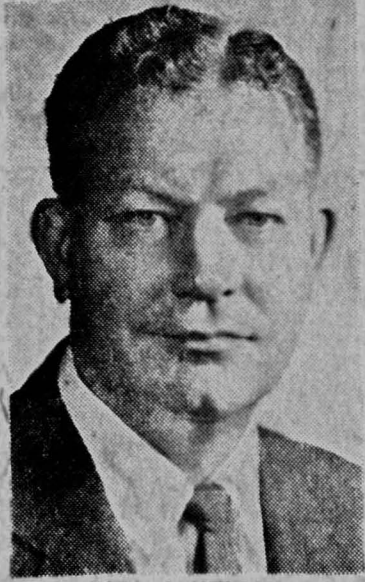
The speaker said his firm's studies indicate an editor, through smart use of attention-getting headlines, can lead the reader through a newspaper "as if the reader had a ring in his nose . . . You can stop him wherever you please, through the use of bright headlines and attractive presentation."

But Nelson warned journalists to remember that the reader "yawns when you yawn . . . so let's not have too many yawn headlines."

The analyst said he finds that most readers scan the headlines to find news "of interest to him or his family." He said the complicated, challenging job facing the editor is to achieve some sort of "indefinable balance" so the product is attractive not only to all persons in the family, but in the community as well.

The supreme readership achievement of an editor, said Nelson, is to have the reader regard his newspaper as both "newsy" and reliable.

Nelson raised the question of



CARL J. NELSON  
Readership Analyst

whether the newspaper business department in some instances is not "making a bunch of bricklayers out of the editor, forcing him to 'fill in' around an advertising dummy, instead of preserving his creative, editorial, architectural ability?"

The speaker also said that while the newspaper reader "wants the latest news . . . he wants the latest trivia, too. He wants to feel that the 40 or 50 minutes he spends on the newspaper have been interesting."

The researcher said he doubts that many readers want to be informed on governmental news, civic affairs and foreign news. Women especially, said Nelson, shy away from this type of news.

But, he added, "it seems to us

readers should read more general news than they do. We see in the metropolitan newspapers that the average man reads about 20 per cent of the general news stories, while the average woman reads about 16 per cent."

Noting that some editors have decried the use of readership surveys, Nelson conceded there is no substitute for good, local editorial judgment "when you are butting up against edition time."

But, said Nelson, reader surveys can be used somewhat as a pilot uses radar. "The beauty of readership data is it provides some guideposts to give newspaper editors and promotion people some justification for doing some of the things they do," he added.

Occasionally, said the speaker, the newspaper neglects some segments of its population, but he warned editors that "if these circulation units, such as age, ethnic and community groups, are neglected too often, your newspaper in turn will be sidestepped and ignored at the newsstands or when the carrier boy comes around to collect."

The research executive also noted that the busy young housewife of today "is raising more and more children . . . a sizable barrier to thorough readership."

Pointing to the big jump in birth rates since the '30s, Nelson warned editors that "you had better have news for the young housewife or you won't have that family long as a subscriber."

The lecturer said it seems to him that too many front pages are edited by men "for men only" and he cited one example of a metropolitan newspaper front page which had strong readership throughout among the women as well as the men.

Nelson, introduced by Leslie G. Moeller, SUI School of Journalism director, followed his introductory commentary with a showing of slides to illustrate specifically how smartly-written, attention-getting headlines had increased readership substantially on identical news stories.

The speaker said he formed his own company, Carl Nelson Research Inc., in 1939. It formerly was the Publication Research Service. The SUI alumnus previously had worked on numerous experimental techniques with George Gallup, under whom Nelson had studied journalism earlier at SUI.

# Many Misconceptions About Trees, Says Iowa Lawyer

Iowa law no longer prohibits building a road through an orchard, Arthur Peterson, Burlington lawyer, pointed out in an article in a recent issue of the Iowa Law Review.

The belief that this law still exists is just one of the misconceptions held by many Iowans concerning the ownership and legal responsibilities involving trees, Peterson, a former law clerk in the U.S. District Court, pointed out in the article.

The Iowa Law Review is published by students in the SUI College of Law.

The location of the trunk of the tree rather than the extension of roots and branches determines ownership of a tree, Peterson said. "If the trunk is on a boundary line, ownership is shared . . . and neither owner may remove or injure the tree without the consent of the other."

A property owner may trim branches or roots which extend onto his property, Peterson explained in the article, but he does not own the branches or roots trimmed.

Peterson said the owner of the tree also owns fruit overhanging his neighbor's land and has the authority to enter that land to gather the fruit.

If a person walking along a street, sidewalk, or in a park is hit by a falling limb, the city is liable for injuries, he said. The city has been found negligent in such cases, even if the tree is located on private property. How-

ever, a tree is worth more because it is part of an orchard, or windbreak. In this case damages would equal the loss in property value, Peterson said.

Utility companies are privileged to cut and trim trees where necessary for running telephone or electric lines, he pointed out. However, where cutting and trimming is excessive, damages can be obtained.

Besides the question of damages, trees also raise problems of taxation, conservation and criminal law, Peterson said. But because of the expense in taking a question of tree ownership to court, these questions seldom reach appellate courts.

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Yugoslav Information Man To See Mass Media Here

A Yugoslav journalist will arrive in Iowa City tonight for a visit Thursday and Friday to local newspapers and radio stations and to the SUI School of Journalism.

Miso Brailo, 38, director of the Government Information Bureau for the State of Montenegro, is traveling as a participant in the Foreign Leader Exchange Program of the U.S. State Department.

The Governmental Affairs Institute in Washington, D.C. said a major purpose of Brailo's visit is to observe and discuss the operations of U.S. news and information media, with emphasis on the relationships of Governmental agencies and the press.

While in Iowa City Brailo will visit the Daily Iowan, WSUI, the Iowa City Press-Citizen, and radio station KXIC.

Brailo is also vice-president of the Montenegro Tourist Association.

# Eleanor Roosevelt Joins In Petition To Save Chessman

LOS ANGELES — Eleanor Roosevelt has signed a petition asking Gov. Edmund Brown to save Caryl Chessman from the gas chamber, the Mirror News said Tuesday.

A secretary for the governor confirmed the former First Lady's petition was among a group of 230 received, the newspaper said.

Among them are identical appeals from authors Harry Golden, Aldous Huxley and Ray Bradbury; actors Steve Allen and Theodore Biekl, producer Walter Wanger and Rabbi Max Nussbaum.

The letters were circulated, the paper said, by the Southern California office of the Friends Committee on Legislation, a Quaker organization in nearby Pasadena.

# Require Larger Schools For Plan Of Conant: Wright

DES MOINES — J.C. Wright, state superintendent of public instruction, said Tuesday Iowa high schools can afford the Conant type of educational program only if they have enough students.

Wright addressed the Iowa Council for Better Education on recommendations made by Dr. James Conant, former president of Harvard University, in a school study report.

Wright emphasized Conant's conclusions that his proposals for a stronger educational program require larger schools. Conant suggested four-year courses in English and at least one foreign language, required science and mathematics courses for all, and three or four years of social studies.

# Social Notes

**THE CATALYST CLUB** will meet Friday at 7:30 p.m. at Mrs. Ralph Shriner's home. All wives of students majoring in chemistry, chemical engineering or biochemistry are cordially invited to attend this first meeting. Mrs. Grace Orr will speak on handicapped children.

**PI LAMBDA THETA**, national honorary education organization for women, will meet Wednesday from 3:30 to 5:30 p.m. in the social classroom of the Women's Gymnasium. All University women interested in the field of education are invited to attend this first informal Pi Lambda Theta event of the 1959-60 academic year. New copies of the Pi Lambda Theta Newsletter published by the local Theta chapter will be on display.

**DELTA ZETA** social sorority will hold its annual Melon Mess tonight in City Park. Members of all social Greek organizations on campus are invited to attend the festivities which will begin at 7 p.m. and last until 9 p.m.

In anticipation of a large crowd, the Delta Zeta's have arranged to have a truck-load (almost a ton) of watermelons delivered to City Park. Music and dancing will also be on the agenda.

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### Masterplayers Here Tonight

The 20 virtuoso string and wind Masterplayers of Lugano will appear tonight at 8 p.m. in Macbride Hall. The group under the direction of Richard Schumacher is from Lugano, Switzerland, and is making its first appearance in the United States.

### Shuns Easy Way—

## Ground Broken By Ike For Library In Abilene

ABILENE, Kan. (AP) — President Eisenhower took a shiny stainless steel spade, stuck it into the rich Kansas earth, and officially broke ground Tuesday for a library in his honor.

Abilene's most famous son spurned doing the job the easy way.

Part of the ground had been dug up in advance, to make the presidential chore easier.

Eisenhower preferred to do his own digging.

It was quite a day in Abilene—bands, schools out, children chatting everywhere, local politicians, a speech by Eisenhower in which he stressed once more

the need for international cooperation.

Or, in Eisenhower's words: "The world must learn to work together, or finally it will not work at all."

Eisenhower did his digging only a block from the old Eisenhower home — and directly across the street from the Eisenhower Museum.

Here a three-million-dollar library will be constructed, to house Eisenhower's papers and other documents of his Administration. One set of documents already is earmarked for the library — the papers of the late Secretary of State John Foster Dulles.

This was homecoming for Eisenhower — and everything had a nostalgic touch.

One sign read: "Welcome home Mr. President. Happy Birthday." A timely reminder that the President will become 69 Wednesday.

Eisenhower's speech painted a picture of today's world as chilly as the weather — in the 40s, with a brisk wind blowing.

"Many peoples of the world, once dominated and submissive, are now, and will continue to be, involved in a great ferment, explosive in its potential," the President said.

Yet Eisenhower insisted that nations work together, each contributing its bit, the immense problem can be licked.

## Tickets Still Available For Hays Lecture

Tickets are still available for the Brooks Hays lecture tonight at 8 p.m. in Iowa Memorial Union at SUI.

Free tickets for the lecture, titled "American Ideals," will be available to the general public. University staff members and students beginning at 9 a.m. today in the East Lounge of the Union.

Representative of the 5th Congressional District of Arkansas from 1942 through 1958, Hays has

## Young Demos To Host Hays Today At Coffee

Former Arkansas Rep. Brooks Hays will be a guest of the SUI Young Democrats at a coffee today from 4 to 5 p.m. in the Private Dining Room of Iowa Memorial Union. All SUI students and faculty are invited to attend the coffee.

worked for the extension of educational and economic opportunities for Negroes in the South and has taken an active part in interracial organizations. He is also a recognized authority on farm tenancy in the South.

Author of the book "A Southern Moderate Speaks," Hays served for eight years as a member of the committee on banking and currency and from 1951 through 1958 was a member of the committee on foreign affairs.

## Reid To Speak At Math Meeting Here

More than 150 Iowa college and high school mathematics teachers are expected to attend the 29th annual Conference of Teachers of Mathematics Friday at SUI.

"Modern Developments in Secondary School Mathematics and Their Evaluation" will be the theme of the conference, one of the oldest annual teachers' meetings held at SUI.

W.T. Reid, head of mathematics at SUI, will address the teachers on "The Fourth R" at a luncheon in the Iowa Memorial Union.

Other speakers scheduled are Lenore John, University of Chicago, "The Recommendations of the School Mathematics Study

## Swiss Group Will Play At Macbride Hall

The Masterplayers of Lugano, a group of 20 virtuoso string and wind players, conducted by Richard Schumacher, will open the fall Civic Music Association concerts tonight, at 8 p.m. in Macbride Hall.

The Masterplayers of Lugano, Switzerland, have appeared and been acclaimed throughout the world. Their tour, including Iowa City and a limited number of other cities, will be their first in the United States.

The emphasis in the programming of the Masterplayers will be on the great masters of the past, with careful attention being given to lesser known works that the players feel deserve a wider hearing. Five works virtually unheard since the time of their composition will be heard in the course of their tour. Composers included are Handel, Haydn, Stamitz, Genzmer, and Mozart.

Other concerts this season will include the American pianist Martin Canin, a young artist whose debut recital recently was a landmark in the year's musical scene in New York. Canin is a brother of Stuart Canin, head of violin instruction at SUI, who this week won first prize in the Nicolo Paganini International Violin Contest.

The Fine Arts String Quartet will be the third program of the series Feb. 28.

The Association's president, Charles Eble, said although memberships in Civic Music are generally available only during the spring drive of the association, students and newcomers to Iowa City can purchase season memberships now at the Campus Record Shop or Eble Music Company. Admittance to concerts is by season subscription only.

Group for Grades 7 and 8"; Henry Swain, Winnetka, Ill., "Recommendations for Grade 9," and Frank Wolf, Carleton College, Northfield, Minn., "Minnesota National Laboratory for Improvement of Secondary Mathematics."

The conference is sponsored by the SUI Mathematics Department in cooperation with the Iowa Section of the Mathematical Association of America.

## Gerontology Meet To Open Monday

"Health, Education and Welfare Programs for our Aging Population" is the theme for the eighth annual Conference on Gerontology to be held Monday and Tuesday on the SUI campus. The SUI Institute of Gerontology is planning the conference with other University departments cooperating.

Martin U. Martel, professor of sociology and staff sociologist at the institute, explained that the SUI conference is aimed to prepare Iowans for the second White House Conference on the Aging to be held in January, 1961.

Each state has been asked to survey conditions of life of older citizens and prepare reports for the White House conference.

The three sessions of the conference are open to the public. Martel pointed to the Monday evening session as one of particular campus and community interest.

This session, "Changing Conceptions of Social Welfare in 20th Century America," will open at 8 p.m. in the Main Lounge of the Memorial Union. The historical, sociological and social work views will be presented.

Robert Bremner, professor of history at Ohio State University, will present the historian's view. Bremner has done much historical work on the development of philanthropic programs.

Speaking for sociologists will be Ernest Burgess, professor emeritus of sociology, University of Chicago. Known as the "dean of American sociologists," Burgess is the past president of the American Sociological Society and the author of many textbooks.

Final speaker will be Mark Hale, professor and director of SUI School of Social Work, who recently spent two years in Great Britain studying socialized medicine.

Introductory remarks will be made by Stow Persons, professor and chairman of history; Albert J. Reiss, professor and chairman of sociology and anthropology; and Dewey Stuit, dean of the College of Liberal Arts, all of SUI.

Dr. W. W. Morris, director of the SUI Institute of Gerontology, is coordinator of the conference.

Between 200 and 300 representatives from participating state agencies and organizations as well as community leaders from all Iowa counties are expected to register.

The conference will open at 1 p.m. in Shambaugh Lecture Room of University Library with a welcome by SUI Provost Harvey H. Davis. Theme for the opening session is "The Role of Governmental and Voluntary Agencies."

The Governor's Luncheon at 12:30 p.m. Tuesday at the Memorial Union will conclude the conference. Gov. Herschel C. Lovell will speak.

The Governor's Luncheon will be a kick-off meeting for a year of activity in Iowa, Martel said. Regional meetings are to be held later in the year.

Martel said all addresses of the conference will be published and made available to participants.

counters and scaling factors allows the instruments to operate even in the most intense radiation zones without being overloaded and jammed into silence, as was the case in Explorers I and III, Ludwig said.

The scalers, encased in a solid, pink, foam, weigh 0.61 pounds and measure five and one-half inches in diameter and are one inch thick. The scalers are designed to "store up" a number of particle penetrations — as reported by the Geiger counters — and produce one pulse each time the predetermined number of particles is reached. Scaling permits the data to be more easily transmitted and analyzed.

Ludwig said the Iowa instruments aboard Explorer VII are unusual in that they operate over an extreme temperature range and consume an infinitesimal amount of battery power. The detector unit operates from —13 degrees Fahrenheit to 275 degrees, while the scalers will operate from —13 degrees Fahrenheit to 180 degrees. The power consumed by the detector and scalers amounts to 60 milliwatts, or 1/1600th of that needed for a 100-watt light bulb.

The data is transmitted back to ground receiving stations on a low frequency (20 megacycles) and with a power of 0.8 watt so that the radio waves will bend with the curvature of the earth and the signals can be received from a greater distance. This will allow ground receiving stations to record a greater amount of the total data continuously transmitted by Explorer VII. Previous Explorers operated on a frequency which permitted only straight-line reception, and at a relatively low power of 0.02 watt. Explorer VII will transmit on 108 megacycles as well, but only for purposes of tracking Ludwig said.

All the Explorer VII reports on the Van Allen radiation and cosmic rays will be forwarded to the SUI Data Reduction Center in the physics laboratories. The Center serves as the international point for collecting, decoding and analyzing the radiation data from the Explorer satellites and Pioneer space vehicles.

According to data reported by Pioneer IV, which was launched March 3, 1959, the inner radiation belt begins at about 1,300 miles and extends to about 3,000 miles from the earth's surface. The outer radiation belt begins at about 8,000 miles and extends as far as about 50,000 miles from the earth's surface.

It is currently believed that the radiation in the inner zone consists primarily of decay products of neutrons emerging from the earth's atmosphere, and that the radiation in the outer zone is predominately due to solar gas and is of much lower average energy.

### Satellite —

(Continued from Page 1)

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## Schwengel To Hear Bid For Bridge

Construction of a new Mehaffey Bridge will be discussed by U.S. Rep. Fred Schwengel and the Mehaffey Bridge Committee at a meeting in Solon Oct. 21.

The committee, formed about five years ago, was organized to promote the building of a new bridge crossing of the Coralville Reservoir between North Liberty and Solon. The old bridge was removed by the Army Corps of Engineers last February.

The meeting will be held at 8 p.m. in the Solon School. Residents of the area affected by the crossing are urged to attend.

Joe Buchmeyer, Route 5, charter member of the committee, said State Sen. D. C. Nolan has said he would attend the meeting. Two years ago 110 persons attended a similar meeting with U.S. Sen. Thomas Martin.

Schwengel has introduced a bill

in Congress seeking federal aid for replacing the bridge.

SUI will be affected by the lack of a crossing with the lease of a new recreation area in the reservoir area. The area can be reached from Iowa City now by going to Solon and then traveling southwest from that community.

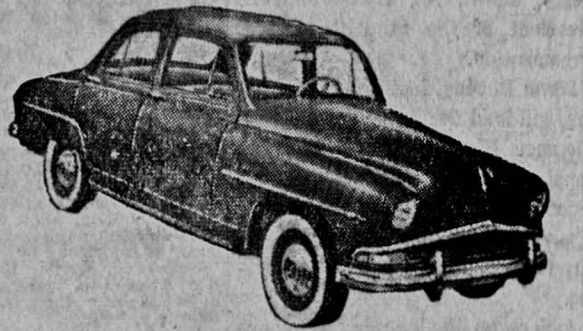
The distance would be shortened considerably if a crossing were constructed to enable Iowa Citizens to reach the area by traveling east from North Liberty.

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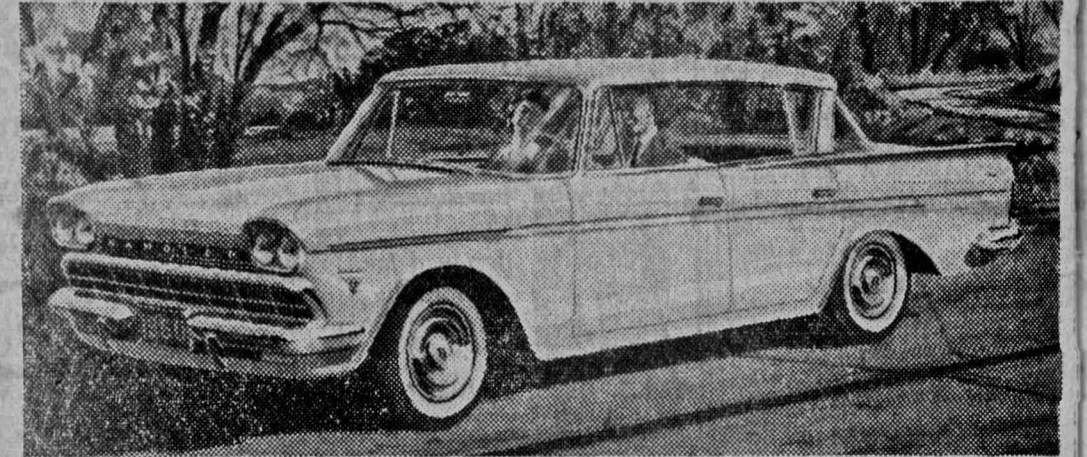
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