

Pack Splits Two; Now 3-1

State split two games with Kent State Friday to end the first week of the baseball season with a 3-1 record.

It was Johnson's second win and his first start. Both pitchers went all the way.

First Loss

In Friday's game neither team could put a man in good scoring position until the seventh inning when back-to-back singles by shortstop Julian King and left fielder Mike Prone put pressure on Kent State's Emil Perunko. The Kent outfield then pulled to the right and pitcher Buck Johnson promptly capitalized by slapping a sharp double to left field.

In Saturday's game both teams dueling for six innings before scoring. Kent State's Steve Krivonek tripled and scored on a single by Bill Steinreide in the seventh. Wendell Coleman had the first home run of the season in the bottom of the inning with a 325 foot blow over the right field wall.

State scored again in the next inning with a double by Wendell Coleman and Julian King's second single.

In the eighth the Pack went ahead on a walk and a single by Tommy Bradford which scored Fred Combs. Krivonek added a double to his earlier triple and went home on Ed Colvin's single to tie it up in another, in addition to heads-up play in the infield.

an error by the shortstop, and a single loaded the bases against sophomore hurler Alex Cheek. Cheek unleashed a wild pitch and Line Hackin dashed home for Kent's first win and State's first loss.

Kemper c	4 0 0 0	Coleman cf	4 1 1 1
Hackin 1b	4 1 0 0	Prone lf	4 0 1 0
Hader 2b	4 0 1 0	King ss	4 0 1 0
Royce 3b	3 0 0 0	Barlow if	3 0 0 0
Metcalf	0 0 0 0	C. Quinn p	4 0 0 0
Line of	4 0 2 0	Clack p	4 0 0 0
Alanic p	0 0 0 0	Totals	35 2 5 2
A. Wyrse	0 0 0 0	A. Batted Alanic in 9th	
B. Feller	0 0 0 0	B. ran for Wyrse in 9th	
Stinson p	1 0 0 0	B. hit for Barlow in 9th	
Totals	33 3 7 2		

Kent State	000 000 103 1-3	
N. C. State	000 000 110 0-2	
E-Robert 2, King 1			
IP-N.C. 3, Kent State 1			
LOB-Kent State 3, N. C. State 1			
2B-Krivonek			
3B-Krivonek			
HR-Coleman			
SB-Lane			
	ab r h bi	IP H R ER BB SO	
Krivonek	3 2 3 0	Alanic	2 5 2 2 4 7
Cole M.	4 0 1 1	Stinson	2 0 0 0 0 0
Pr. Combs	5 0 0 0	Check	3 1-2 7 2 3 5 6
Bradford 1b	4 0 1 1	Hicks	2-3 0 0 0 2
Haley rf	1 0 0 0		

Altitude Raises Time In NCAA

Wolfpack swimmers ran into trouble at the NCAA finals in Colorado Springs as the unaccustomed altitude raised times in nearly all events.

Jeff Herman collapsed Thursday, the first day of the meet, suffering from hyper-ventilation. Herman swims a leg in three relay events. All-American John White was also bothered by the rarified air at the Air Force Academy Natatorium and failed to qualify for the 100 yard butterfly, an event in which he placed third in last year's finals and was top-seeded in this year. Phil Riker of North Carolina turned in a time of 51.6 seconds, only a tenth of a second off White's best time this year, and is favored to bring the medal back to this area.

Sophomore Steve Rerych finished fourth in the 50 yard freestyle in a finish that could only be determined by electronic

timers. Rerych also had a second in the 100 yard freestyle, finishing only three-hundredths of a second behind Don Roth of Santa Barbara.

All-America Ron Wirth placed fifth in the 200 yard backstroke and Bob Hounsell qualified for the finals of the 1650 yard freestyle, his main event.

John Calvert placed second in the 400 yard individual medley.

Because of the altitude State did not fare as well as had been hoped, finishing farther down in the relays than had been hoped, but still did well enough to expect a seventh of eighth place in the final count.

Intramural Clipboard

HANDBALL TOURNAMENT
Tony Capalbo of Bragaw won the dormitory individual handball championship Thursday by defeating Harry Anderson of Alexander.

SOFTBALL

In dormitory games last week Bragaw N #2, topped Bagwell 11-4 and Owen #2 homered five times to beat W-G-B 25-5 in four innings. Journigan had two four-baggers and Rice, Heustess, and McArthur each had one.

Forbes cleared the bases twice for Alexander and Keener once as Tucker #1 fell 14-9. Bragaw S #1 beat Tucker #2 10-7. Blythe (2) and Wilkinson homered for Bragaw and McKaskill (2) and Osborne did the same for the losers.

Bragaw N #1 scored 14 times to beat Lee #3 by four. Edwards homered for the winners and Wagner for the losers. Lee #2 shelled Turlington 20-7 behind homers by Cranford, Austin,

Ridenhour, Kendrick, and Brown. Frost and Linker (2) provided most of the runs for Turlington.

Syme topped Owen #1 12-9. Jones homered for the Symen. Lee #1 took Becton 11-5.

NOTICES

Open League Softball play begins Tuesday and Thursday of this week. One more team is needed to fill out the 16 team field.

A student/faculty golf tournament will be held at Lake Shore Golf Club. Qualifying deadline is April 5 and for the \$5 fee at least four rounds are played.

With spring a reservation system similar to that used for the handball courts is now in effect. Pick up reservations at the cage.

SOFTBALL STANDINGS

Section	Won	Lost
Section 1	2	0
Lee #2	1	1
Lee #3	1	1
Bragaw N #1	1	1
Turlington	0	2
Section 2	2	0
Bragaw S #1	2	0
Syme	0	2
Owen #1	0	2
Tucker #2	0	2
Section 3	2	0
Owen #2	2	0
Alexander	2	0
Tucker #1	0	2
W-G-B	0	2
Section 4	2	0
Lee #1	2	0
Bragaw S #2	1	0
Bragaw N #2	1	0
Bagwell	0	2
Becton	0	2

Pack Baseball

Four games appear on the schedule for the Pack baseball club this week as a busy round of home play continues: Tuesday and Wednesday, Cornell vs State (Home) at 3 p.m. Thursday at 3 p.m. State vs State, Saturday at 2:30, State vs Carolina (Home).

Stu Corn Sweeps Four New Honors In UF Relays

State's Stu Corn, who scored 42 percent of the Pack's points in its first track meet with UNC won a first and three second place medals at the Florida relays in Gainesville Saturday.


Florida State, Florida A&M, Florida, Alabama, Princeton, Southern Illinois, Tennessee, and South Carolina competed with State in the meet.

John Kaveny, State's strong-armed javelin master took second with a toss of 216'11". Corn

cleared 15'5" in the pole vault, the second highest ever scored in the annual meet.

Wolflets Ron Sicoli, Richard Trichter, Bob Svoboda, and Jeff Fraisher ran second in the sprint medley relay and the mile relay, setting school records in both events. The four finished only six inches behind Florida in the mile relay.

Kaveny set a school record of 219'2" in the javelin against North Carolina last week.



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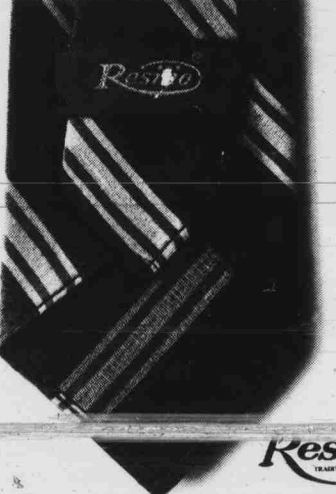
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ARMY ROTC

"Laser" Research Project At State Seeks To Link Atomic Power To Light

By Pete Burkholder

On the outskirts of a large city a thin, intense shaft of light shoots up from a concrete bunker. A fraction of a second later a small, distant explosion is heard, and the undetonated fragments of a nuclear warhead fall to earth.

A ground controller addresses the crew of an interplanetary spacecraft over a microphone. His voice then speeds across the heavens, carried on a thin ray of light.

A blind man is wheeled into an operating room. Surgeons insert a dead man's retina into his eye and weld it into place with a thin, concentrated beam of light.

The thin shaft of light which links these seemingly unrelated incidents together is the laser. Even today these miraculous "events of the future" are taking shape in research laboratories all over the world.

Physicists and engineers on State's own campus are right at the forefront in laser work.

The Physics Department is trying to augment the output of a laser with nuclear power. This project is directed by Dean A. C. Menius, along with Dr. W. R. Davis and Dr. M. K. Moss. Much of the actual research is being done by C. R. Philbrick, W. C. Collins, and B. J. Gravelly, all graduate students in physics.

Their efforts, supported in part by the Army's Missile Command, have led to several significant achievements. "Using nuclear radiation," Philbrick pointed out, "we can increase the laser's output by a factor of five."

Atomic radiation increases the laser's yield in two ways, according to Philbrick. The energy itself can be stored in the crystal lattice of the ruby rod which is the heart of the laser. In addition, irradiation can increase the laser's power to absorb the energy of the pump light.

The pump light is used to activate the chromium ions in the ruby rod (the ruby consists of sapphire, with the chromium present as an impurity and re-

sponsible for the red color.) The activated chromium ions reach a metastable state and expel a photon, or bundle of light energy.

The "lasing" effect takes place when photons strike more metastable chromium ions in a chain-reaction, or "pass it on" phenomenon. These photons are reflected back and forth between two parallel mirrors at either end of the rod. Since one of the mirrors is made to be more reflective than the other, the greater proportion of the beam produced by the laser is transmitted through the less reflective end.

The laser beam consists of a large quantity of concentrated light energy. "The temperature attained is sufficient to vaporize any substance," stated Philbrick.

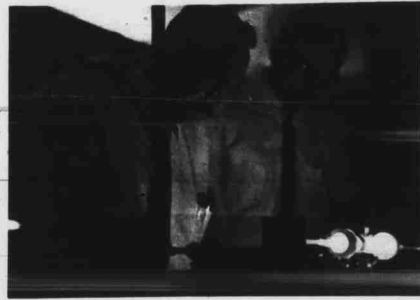
Due to its ability to concentrate large amounts of energy into a single beam, the laser conceivably lends itself to applications as a weapon or a defensive armament, as illustrated before. Its high temperatures allow it to be used as a bloodless scalpel in surgery, as it cauterizes tissue instantaneously.

State's Department of Electrical Engineering is working with the laser as a communications tool. The laser, being a form of electromagnetic energy just as much as a radio wave, can be modulated to carry anything from the human voice to television pictures.

A. T. Shankle, a graduate student in the department, is testing the use of air as a sort of "lens" to focus the laser beam. Shankle is taking advantage of the fact that the temperature of air directly determines its density. Just as in a glass lens, the differences in density in an area of varying temperature cause light to be refracted to different degrees.

Shankle, under the supervision of Dr. F. J. Tischer of the EE Department, is trying to determine the specific effects of different thermal gradients on a laser beam. The laser used in his research is a neon-helium laser (a tube of neon and helium replaces the ruby rod) of relatively low output.

"The laser light, with its high



Professors E. R. Manning and R. R. Patty are shown in this photograph taken by the concentrated light of the laser beam they are observing.

wavelength, can transmit an infinite amount of information," stated Shankle. Due to natural atmospheric gradients, a communications beam would have to travel in an enclosed pipe, he pointed out. His temperature gradient "lenses" could be used along such a pipe to refocus the beam as became necessary.

As progress is made toward the further application of the laser to practical uses, it is inevitable that State will be making significant contributions to this end.

Walter's Column

(Continued from page 2)

Q: Well, couldn't what you said about "the moaning and groaning you hear from some of our campuses and coffee-houses today" be called an attack on protest movements?

C: If that's how you interpret it.

Q: Do you believe, practically speaking, that this movement can succeed with everybody in the world?

C: "If I didn't believe that, I wouldn't be here."

Q: Do you believe that it will succeed with everybody in the world?

C: "If I didn't, I wouldn't be here."

Q: "The answer then is yes, isn't it?"

C: "I didn't say that. Don't try to read things into what I say. I said that if I didn't believe it, I wouldn't be here. That's all I said."

Q: Well, do you believe that man is basically good?

C: Man is both good and bad. He can go two ways. If he follows God and believes in the ideals of Moral Rearmament, he will follow the path to goodness.

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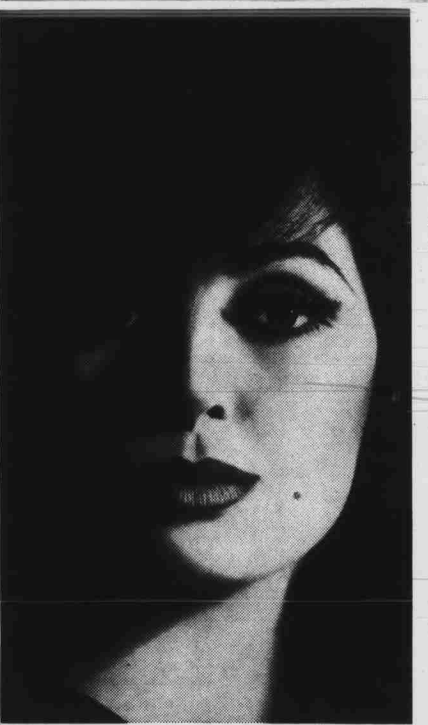
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SHULTON

Evans Talks Politics

(Continued from Page 1)

to talk to student leaders. Friday—Political Science 322 class, 100 Harrelson Hall, 10:10 p.m.

During his visit Evans will speak to a number of special campus groups. His lecture Wednesday evening, "Today's Critical Decisions in Foreign Policy," will be open to the student body and members of the UN organization. The lecture is set for 7:30 in the Erdahl-Cloyd Union.

Evans' schedule is as follows: Wednesday—Advanced Seminar in Political Science 492—146 Harrelson Hall—2:10 p.m. Open address to the University, Erdahl-Cloyd Union, 7:30 p.m.

Thursday—Two sections, Contemporary Issues course, 100 Harrelson Hall. Guest of Chancellor and Mrs. Caldwell.

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