

THE INTERNATIONAL STUDENTS ASSOCIATION

announces a

GENERAL ASSEMBLY

13th November, 7:30 p.m.
Rudder 301

- POINTS TO BE DISCUSSED:
1. CONSTITUTIONAL AMENDMENTS
2. ELECTION OF THE ISA PRESIDENT

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Lab finds bugs make UFO glow

WASHINGTON — Could some nocturnal UFOs be nothing more than swarms of glowing insects darting about erratically in a natural electric field?

That's a conclusion reached by an Agriculture Department scientist who was a military electronics specialist during World War II. He said Wednesday that insects — which sometimes travel in swarms many miles long — would trigger electrical discharges when flying beneath a storm front.

"The glows, the fluorescent glows that came off were very eerie," he said. "They resembled a discotheque, you might say, in the sky. They would glow blue — mostly blue because nitrogen is one of the gases involved — and you would get bright reds and greens."

An insect swarm would try to get out of the electric field, Callahan said, and as it darted around, it would be making a humming sound. Suddenly it would disappear because it would leave the voltage field and it would look like it shot away into the sky because there was no reference point looking up into the black sky.

"So the effect on your eye would be exactly the same as the effect that these sightings are reported."

Callahan investigated agricultural records in Utah where there was an outbreak of UFO sightings between 1965 and 1968 and found there were infestations of spruce budworms in Utah for two years before the sightings. Spruce budworm moths have been known to fly in swarms up to 64 miles long and 16 miles wide.

Callahan said the records showed that UFO reports occurred when mass migrations of the moths would be expected to occur.

Besides providing a possible UFO explanation, Callahan said the research could have "tremendous agricultural potential" because a correlation of insect infestations with study of Air Force records showing when and where such UFO sightings occurred could reveal much about the migration habits of damaging insects.

The American Institute of Physics said if the electric field is large enough, electrons can be pulled away from pointed exposed surfaces — such as insect legs and antennae. An avalanche of such electrons would excite atmospheric gas molecules which would emit visible light.



MSC AGGIE CINEMA SPRING '79 MOVIE POLL

The following is the MSC Aggie Cinema film poll for the Spring Semester 1979. Please turn in the polls at the Student Programs office (Rm. 216, MSC), or the Ballot Box in front of the Aggie Cinema display case on the first floor of the MSC. Deadline is Sunday November 5, 6 p.m.

1. Please circle one:
a. Male b. Female
2. Please circle where you live:
a. On-Campus b. Off-Campus
3. Please circle your classification:
a. Senior c. Sophomore e. Faculty/Staff
b. Junior d. Freshman f. Graduate Student

Have you ever attended an Aggie Cinema movie? YES NO
Would you like to attend a movie on Sunday evenings at 8:00 p.m.? YES NO

- Circle 8 of the following International films that you would like to see.
- | | | |
|--------------------------------------|---|-----------------------|
| 1. Anne of 1000 Days | 6. Los Olvidados (The Young and The Damned) | 11. Small Change |
| 2. Macbeth | 7. All Screwd Up (Wertmuller) | 12. Madame Rosa |
| 3. King Lear | 8. Satyricon | 13. The Bicycle Thief |
| 4. The Mad Adventures of Rabbi Jacob | 9. Judgment at Nuremberg | 14. Cria |
| 5. Padre Padrone | 10. La Strada | 15. La Dolce Vita |

Circle 15 of the following Classic films that you would like to see.

- | | |
|---|---|
| 1. Marx Brothers Festival
Animal Crackers
Duck Soup | 20. An American in Paris ('51) - Gene Kelly |
| 2. Keystone Cops (Golden Age for) | 21. My Man Godfrey ('36) - William Powell, Carole Lombard |
| 3. East of Eden ('55) - James Dean | 22. Clark Gable Festival |
| 4. The Little Foxes ('41) - Bette Davis | It Happened One Night ('34) |
| 5. Arsenic and Old Lace - Cary Grant | The Hucksters ('47) |
| 6. El Cid ('51) - Charlton Heston | Muliny on the Bounty ('35) |
| 7. Jane Eyre ('43) - Joan Fontaine, Orson Welles | Red Dust ('32) |
| 8. The African Queen ('51) - Humphrey Bogart, Katherine Hepburn | 23. Spencer Tracy Festival |
| 9. Joan of Arc ('48) - Ingrid Bergman | Adam's Rib |
| 10. We're No Angels ('42) | Boys Town |
| 11. The Count of Monte Cristo ('34) - Robert Donat | Captains Courageous |
| 12. Rebel Without A Cause ('55) - James Dean | The Old Man and The Sea |
| 13. Meet John Doe (') - Gary Cooper | 24. Cary Grant Festival |
| 14. Mr. Smith Goes to Washington ('39) - James Stewart | The Talk of the Town ('42) |
| 15. Gentleman's Agreement ('47) - Gregory Peck | His Girl Friday ('40) |
| 16. The Best Years of Our Lives ('46) - Fredric March | Holiday ('38) |
| 17. Frank Capra Festival | Notorious ('46) |
| It's A Wonderful Life (1946) | 25. The Big Country ('58) - Charlton Heston, Gregory Peck |
| Mr. Deeds Goes to Town (1936) | 26. Duel in the Sun ('46) - Jennifer O'Neil, Gregory Peck |
| 18. Sergeant York ('41) - Gary Cooper | 27. Yankee Doodle Dandy ('42) - James Cagney |
| 19. National Velvet ('45) - Elizabeth Taylor | 28. Going My Way ('44) - Bing Crosby |
| | 29. The Robe ('53) - Richard Burton |
| | 30. The Philadelphia Story (') - James Stewart |

MATINEE

- Circle 15 of the following matinee films which you would attend:
- | | |
|---|------------------------------|
| 1. Other Side of the Mountain (Part II) | 16. Airport '77 |
| 2. In Casey's Shadow | 17. Paper Moon |
| 3. I Wanna Hold Your Hand | 18. Brother Sun, Sister Moon |
| 4. A Touch of Class | 19. The Great Gatsby |
| 5. Chitty, Chitty, Bang, Bang | 20. The Dove |
| 6. Jonathan Livingston Seagull | 21. Where the Red Fern Grows |
| 7. The King & I | 22. The 3 Lives of Thomasina |
| 8. Sugarland Express | 23. You Light Up My Life |
| 9. Murder on the Orient Express | 24. Winterhawk |
| 10. The Lion in Winter | 25. Lost Horizon ('73) |
| 11. 1776 | 26. Ten Little Indians |
| 12. A New Leaf | 27. Brian's Song |
| 13. Love Story | 28. Echoes of a Summer |
| 14. Twelve Chairs (Mel Brooks) | 29. Man of La Mancha ('72) |
| 15. Crossed Swords | 30. The Ten Commandments |

MIDNIGHT

- Circle 15 of the following midnight films which you would attend:
- | | | |
|--------------------------|---|-------------------------------|
| 1. The Boys in Company C | 10. High Anxiety | 19. Last Remake of Beau Geste |
| 2. F.M. | 11. Walking Tall | 20. Lenny |
| 3. Dog Day Afternoon | 12. The Magic Christian | 21. The Mechanic |
| 4. Shampoo | 13. Three Musketeers | 22. The Front Page |
| 5. Freebie and the Bean | 14. Four Musketeers | 23. Day of the Jackal |
| 6. Return of the Dragon | 15. Start the Revolution Without Me | 24. Grizzly |
| 7. Outlaw Josey Wales | 16. The Graduate | 25. The Black Bird |
| 8. Easy Rider | 17. Rabbit Test | 26. Thank God It's Friday |
| 9. Last Picture Show | 18. Bingo Long & The Travelling All-Stars | 27. Which Way is Up? |

POPULAR

- Circle 15 of the following Popular films that you would like to see.
- | | |
|-------------------------------------|---------------------------------|
| 1. Saturday Night Fever | 17. The Cheap Detective |
| 2. Woody Allen Festival | 18. The Swarm |
| Take the Money and Run | 19. Silver Bears |
| The Front | 20. The One and Only |
| Everything You Always... About Sex! | 21. American Hot Wax |
| Play It Again Sam | 22. Rocky |
| Love and Death | 23. Semi-Tough |
| 3. Heroes | 24. Clint Eastwood Festival |
| 4. House Calls | Dirty Harry |
| 5. The Choir Boys | The Good, the Bad, and the Ugly |
| 6. The Greek Tycoon | Fistful of Dollars |
| 7. Grease | Magnum Force |
| 8. Gray Lady Down | Paint Your Wagon (Matinee) |
| 9. F.M. | 25. Robert Redford Festival |
| 10. First Love | the Sting |
| 11. Straight Time | Butch Cassidy |
| 12. The Boys in Company C | Three Days of the Condor |
| 13. In Casey's Shadow | The Way We Were |
| 14. Foul Play | Waldo Pepper |
| 15. Mel Brooks Festival | 26. The Paper Chase |
| Blazing Saddles | 27. Equus |
| High Anxiety | 28. Patton |
| Silent Movie | 29. What's Up Doc |
| The Producers | |
| 16. Coma | |

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Friday & Saturday Midnight Show

Gas-producing rocks Hydraulic 'frac' tried

HOUSTON — Engineers soon will try to prove on a large scale that massive hydraulic fracturing of gas-bearing rock formations will have the potential of doubling gas reserves in the continental United States.

The "frac," as drillers call the process, will be desirable especially in areas where the cost for drilling previously was prohibitive.

George P. Mitchell, chairman and president of Mitchell Energy and Development Corp., said Wednesday the technique will be used in two weeks in a gas-bearing rock formation two miles underground in Central Texas.

Mitchell said the fracturing process has been used successfully in a previous marginal well in the same area, and that it allowed about three times the potential recovery from a given well.

The engineering objective is to open a 1-inch-wide, mile-long fracture in the limestone formation by pumping one million gallons of fluid and nearly three million pounds of sand into an existing conventionally completed well.

"We expect to gain an extra two to four billion cubic feet of reserves per well as a result of the frac," Mitchell told reporters. "And, equally important, we expect to increase the rate at which the well produces by 200 to 400 percent."

Massive hydraulic fracturing is a highly promising technology because it promises to unlock vast amounts of gas contained in so-called "tight" gas formations — those that have low permeability and porosity where gas flow is severely restricted.

Mitchell said a Department of Energy study concluded that tight gas basins in the Southwest, Northern Plains and Rocky Mountain areas were estimated to contain 400 trillion cubic feet of gas in places. Mitchell said with technological advances in recovery techniques — combined with new, higher prices — it was projected these basins hold more than 180 trillion cubic feet of recoverable gas.

"To put that in perspective, the same study put current proved obtainable reserves of the lower 48 states at 184 trillion cubic feet."

Mitchell said. "So we're talking about a technology that could double the reserves of the entire lower 48 (states)."

"We can double reserves with the new technology that we couldn't get gas economically otherwise. If we get enough gas, we reduce the need for imports."

"You could get more gas by drilling more wells — but we are trying to maximize recovery," he said. "Gas is one of the biggest hopes we have."

The DOE is contributing \$553,000 to the \$1.8 million to be spent for drilling and fracturing the Muse-Duke well, Mitchell said.

During the fracturing process, sand carried by a gel formulated from the water and chemicals is to be pushed through perforations in the steel casing at a depth of 11,000 feet. The tremendous pressure will induce a thin vertical fracture spreading in two directions from the core. When the fluid is recovered or dissipated, the sand will remain in place keeping an open channel, allowing gas to migrate from the rock into the well.

"Our previous experience indicates that the Muse-Duke well will be changed from a marginally economic well to a very respectable producer as a result of the frac," Mitchell said.

The project will begin Nov. 15 at the Fallon Field near Mexia when Mitchell has been operating for the past seven years.

The gas will be sold to Texas Utilities.

Industries will share space lab

HOUSTON — Government and private industry will share use of a national research facility in Earth orbit by the end of the century, space agency officials predict.

"We will see every kind of public and private organization that does materials research using this facility," said Anthony J. Calio, associate NASA administrator.

Addressing the 25th anniversary conference of the American Astronautical Society Wednesday, Calio also predicted development of sophisticated industrial processes in space by 1999.

"Some of these inventions will be applied to improve materials processing on Earth, while others are likely to offer a basis for products that can be made in space and sold for a profit on Earth," he said.

Some 500 scientists and engineers attended the meeting which ended Thursday.

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