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Space shuttle excites OU audience By ED BAS

An ungainly bird is about to take flight that could just change your life. And if you think the space shuttle won't affect you personally, 300 space and engineering buffs at Oakhand Uni-versity might argue the point. That many gathered recently to hear a representative of the Rockwell Inter-



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mational Space Division spollight the shuttle program—the only manned space venture NASA has planned for the rest of this century. Speaker John Latin flew in from California at the request of the Oakland University chapter of the Society of Automotive Engineers (SAE). His topic was the returnable rocket-glider system that will make its first voyage into space in 1990. "The change of emphasis in the space program." Latin said, "took place in the early 1970's. We put a man on the moon and now were beginning to take another look at Earth. Skylab was one of the main factors." SKYLAB HOLDS the world record for life in outer space with manned mainstants for a combined total of over 10 methods of the contry's answer to how space trips can be made inexpensively, for one-burdendth of the cost of space light in the middle of the last decade. Rockwell is a major contractor for the shuttle, and also helped built the command and service modules for the Apollo moon lander, the Skylab program and the Apollo-Soyu test project.

ect.
The space shuttle has been tested for free flight when released from its piggy-back mounting on a stripped and then refurbished 747 jet. Its first glide then refurbished 747 jet. Its first glide down to a 12-mile runway on the salt lats of California lasted just over five minutes. When the shattle orbiter goes into space, it will be on the back of a leguid-fuel rocket with two strap-on solid fuel boosters. The add-on tanks are recoverable by parachute and the shattle orbiter itself can be used again.

parachute and the shattle orbiter itself can be used again.
"We have a get-away special," Latin said, "that includes five cubic feet and 200 pounds for \$10,000. You can't beat it." However, the bargain rate is for instrument packages only, and doesn't include life support systems.

The shuttle lands more like a rock than a glider, according to Latin. Its last test flight with special air-drag equipment removed lasted only two

minutes.

And it did it on a 15,000-foot runway like the one that will be used in the 190s, not the wide open spaces of the eat flate.

salt flats.

So far, tests have gone without a hitch, despite the "dead stick" approach without an ounce of fuel. The fuel and engines it carries are to be used to get into orbit, but not to help it land.

land.

"I had one person ask me what would happen if they missed the runway." Latin said. "I told film a lot of technical jargon about glide paths and timing. He asked me what would happen if they missed the runway." It told him about the four computers they have on board, three of which can out-vote a malfunctioning one and land the orbiter democratically. 'He asked me again what would happen if they miss the runway. I gave up and told him that was what they called a 'congessional investigation'. Included in the shuttle's uses are: "Focusing the son's rays on a city during a blackout.

"Orap and farm field monatoring for better use of fertilizer, insecticide and irrigation.

"Warming crops threatened by frost."

*Warming Cope of the American State of the Cope o

MICHELLE TWEEDIE came to the discussion not because of any engi-neering drive but because she is inter-

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Mailing address and phone numbers for the bureau are unchanged. In the Lansing area, persons seeking Mich-

igan travel information can dial 373-1185 or 373-0670. From outstate Michigan, dial toll free, (800) 252-2520. Mail inquiries should be addressed to P.O. Box 3025, Lansing 4899.
Some of the services provided by the travel bureau include fall color reports, Michigan snow and road conditions (December-March). Ifishing reports, festivals, events, attractions and regional information.

an adult community

ested in the shuttle "just out of curios-ity and from an economics point of

ity and from an economics point of view."

Dave Jeshurun, president of the SAE chapter at OU, said he was impressed with the presentation. "It's one of the said significant engineering feats of the said of the

"People frequently ask why we're spending so much on the space program." Latin said. "NASA comprises 08 per cent of the national budget. Defense spending is over 40 per cent. And not one dime of the NASA budget is spent in outer space. There are no cities there, ve. That money is spent here on Earth."



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