To WSU physicist, sound is sophisticated

ses hearing is, the same.

Sound takes many forms as music,
a said, but it has other amazing
hallties. It puts the whistling in the

THE SAME SOUND waves that

At the physics department's blen-nial open house, he performs an ex-periment that gets everyone's atten-

tion. He shatters a heavy-duty Pyrex beaker with a single tone. Next. he shows how the sides of the beaker noticeably flex back and forth before the beaker explodes. A television commercial for recording tapes demonstrated a similar effect as a singer's voice breaks a delicate glass. But Stein's experiment is anything but a delicate goblet. He demonstrates the beakers strength by knocking them across a table with a pair of piters to show that they can survive rough treatment.

PRINCIPLES OF physics are useful in explaining the power of a single tone to break a glass and the ability of a person to detect even very low-level sounds, Stein said. "Sound travels in waves," he explained. "We hear sound when those waves are collected by our ears and deciphered by the brain. To break a glass, we match the frequency of the sound wave with the natural vibrational frequency of the glass." In other words, he said, he matches the pitch of the sound wave with the sound the glass makes when

lightly struck with another object, like a pen. "To break the glass, you have to match the pitch exactly." "By matching the pitch in might be beaker a series of pushes in rhythm with its natural vibrational frequency." he said. "It's like pushing a child on a swing. You have to push exactly in rhythm to make the swing go higher.

"The beaker is the swing, and the pushing is done by the sound wave. After awhile the beaker starts moving and eventually it moves so much "" like it's being hit with a

and think about it, sound really amazing."

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