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Sensors detect move-

ments near the screen, so

with your virtual creations.

Wave your arms, and some

You can also release artificial

At four schooling stations,

you can control how fish

interact with their neighbors,

patterns that arise from all of

the interactions. The lesson

learned: fish don't need a

leader to stay together in a

and observe the schooling

how the fish react.

food into the tank and watch

that you can interact directly

"By designing and playing with artificial creatures, people can learn ideas from the forefront of scientific thinking," says Mitchel Resnick, Fukutake Career Development Professor and co-director of the project. The Fishtank project grew out of Resnick's efforts to help children understand the workings of complex systems, described in his book Turtles, Termites, and Traffic Jams.

The \$1-million exhibit takes advantage of the latest advances in 3-D computer modeling and animation. The spectacular underwater world is modeled and rendered on a network of 20 computers, then displayed on 12 large projection screens.

he exhibit includes six Diving Deeper stations, where you can explore the core ideas underlying the Fishtank project. The stations show how complex patterns arise from simple rules in many different situations—in traffic jams, termite colonies, and economic markets, not just fish will swim towards you.

> The National Science Foundation provided a \$600,000 grant for the exhibit. The next step is a traveling version which will be seen at science centers and aquaria around the world.

fishtanks.