Shooting for the moon

Once grounded by financial problems, the Orlando Science Center aims to fly high again, with new management & innovative programs

By Rafaela Ellis

Few Orlando events were as heralded as the opening of the newly expanded Orlando Science Center (OSC) in February 1997.

And the buzz wan't confined to Florida. National media covered the story, too; Dan Rather even came to town, anchoring the CBS Evening News with the Center's silver-domed observatory dome gleaming in the background.

And then the bottom fell out.

By December of its opening year, OSC had laid off 18 employees, and by 1999 the new attraction — \$1.6 million in the red — had come within five days of closing, saved only by a \$700,000 billiou by Orange County and the City of Orlando. Once vaunted as the city's shining atta, the Orlando Science Center was fast gaining a label as the area's most infimous boordogef. That was then. Today, thanks to a new management philosophy and a renewed comminent from the community. He Orlando Störene Center has regained its financial footing and is poised to realize its potential as one of the Southeast's more innovative calutand facilities. The OCS cags will be store in just how difficult it can be to maintain a lody orbit in the ratefield air of philamthropic endeavos and a testament to the risks and rewards of reachings for the moon.

Phasing in success

"Were entering the third phase for the Science Center," says Stephen Goldman, the Orlando entrepreneur and philanthropist who currently serves as the Center's interim CEO. "The first stage was building the building, and thanks to [longtime CEO] Sondra Quinn, we built a world-class facility."

Next, Goldman stys, came "the second phase, where we halanced the budget." Credit for digging OSC out from under its massive debt, he stys, goes to Kim Maher Cavendish, who took over after Quinn's 1999 departure, reorganizing the Center and lobbying for increased government funding to put OSC back on solid financial ground.

Now, with OSC once again operating in the black, Goldman says, "we're embarking on the third phase, of developing ... a culture focused on content.^{**} That culture, he says, will combine the efforts of the Science Center's staff and board with input from the community, particularly the scientific and technical communities represented by the area's universities and high-tech corporations. They'll be asked to provide both expertise and money to keep the center rolling.

Not that developing such alliances will be easy.

"Weve had a lot of people come to Orlando in the last 20 years, and we don't have a well-integrated community of individuals involved in the cultural community." Goldman notes. "Older communities have built up large endowments, and a lot of the money [for cultural endeavors] comes from those endowments."

While Central Floridians have stepped up to the plate for capital campaigns, such as building the Science Center's new facility, long-term funding for operating costs has been harder to come by.

What more, Goldman netse, corporate involvement depends on degrmanning roots, and "divers are not a lot of Hang corporation that have their home offices here," he says. "Unless the nature of our economy damas, where we have a lot of home officies where the gays who write the checklow, it's more important for government root governet with operating coproses," So fac, local government responded with a funacial commitment, and Goldman expects foderal gants to provide further assistance.

But the CEO, who has level in Orlando for more than 45 years, recognises that generation and the other than the property of the term formum as founder and CEO of Duributed Proceeding Technology, highestic manufacturing firm. Goldman terrelia in 2000 to devote himmelf full time no developing Gennal Bordiak calcular states. In addination and a prosident process of the Orlando Hilliamonic Orbetten. And bei even committed \$250,000 th in own money to create an imrgated approach to the Science Center's childrino.

The science of exhibitionism

With technology evolving at the most rapid pace in history, a science center's exhibits can go from state-of-the-art to stale in seconds. And with government demanding more accountability from the institutions it funds, organizations like OSC have to prove they're meeting their mission of serving the community.

Those factors, says Goldman, are the impetus for the Science Center's new integrated exhibition strategy.

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> — Steve Goldman interim CEO, Orlando Science Center

> > To broaden the OSC's appeal, the Center has booked a number of shows, like the Masters of the Ocean Realm exhibit, that combine conventional entertainment with learning.

"There has to be content that gives [people] a reason to come back," he says, "and you can't put it all on a laminated plaque in front of an exhibit."

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The centerpiece of that program is Wired Science, an interactive system that will link every OSC exhibit to a computer database, allowing visitors to tailor each exhibit experience to their own level of interest and expertise.

"We [will] have individual kiosks next to the exhibits, where we can accumulate content like a library," Goldman says. "You can start on a surface level and, if you are so motivated, delve deeper into the science."

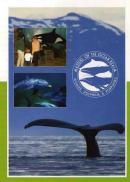
The project is especially dear to Goldman, who secured Wired Science's quarter-million-dollar seed money by reaching into his own pocket.

Beyond linking each exhibit by computer, OSC plans to enhance familiar displays and bring in successful traveling shows to expand the Center's appeal.

"The current exhibits can be improved quite a bit so that we're really covering the areas we want to cover," Goldman says.

For example, the Center's old *That Coil* display its being replaced with a new, more complex one linked to a 60-second Wired Science animation that explains the coil's purpose, then reinforces the learning through interactive activities. (For more information, see "Science Gets Wired," page 31.)

To bring in others along with the science buffs, OSC has booked a number of films and exhibits that combine conventional entertainment with learning. This spring the CineDome Theater presented *Cinque du Social journey of Man*, a large-format film about human development that









The dramatic and exciting visuals of large-format films make viscours field hey're part of the experience. Films recently featured and upcoming at the GrapDone Theater include Canpae du Soleil Journey of Man: India: Kingdom of Tiggt; and Lewis & Clark: Great Journey West. the material that may be asked in the FCAT," Hoyer says.

Although the Science Center is not involved in writing or reviewing the FCAT, Hoyer says OSC has "identified for teachers which of the Florida Sunshine State Standards [for science] correlate to

Renewing its popularity isn't the only aim of OSC's new attitude. According to Betty Hoyer, OSC director of education, the Center hopes to become a catalyst for improving science education for the area's schoolchildren.

This fall, the CineDone will show Leai of Oarle Gran Janny Wins, a lang-sterm movie about the famous advantares and their trek across undhared America. Also this fall, the exhibit Plentary Landaege travels from California's Chabe Space & Science Centre to He Iocals see and took 12 interactive scalptures that reglicate the creation of the universe. And Gray of Winder will ravel from Elibasace to show Nerolica's local governments work to deliver services to their far-growing populations.

The Center's original attractions, including the NatureWorks Florida habitat and the Kids Town play area, will remain, with improvements planned as funding permits.

"If [the community] doesn't put additional money in the Science Center, we'll do it slowly," Goldman says of the improvement plan. "But I'm hoping that, as we start this, the community will become as excited as the staff and the board, and we can get the money to do it mone quickly."

Links to learning

Management hopes these technologies and exhibit changes will bring fresh patrons to the Science Center and prompt former visitors to return. Renewing its popularity sint the only aim of OSC's new attitude. According to Betty Hoyer, OSC director of education, the Center hopes to become a catalyst for improving science education for the area's school-hildren.

The Science Center has long worked with the Orange County School Board to "help teachers meet the expectations placed upon them." Hoyer ways. Every two years, the tchool board appoints row science teachers to OSC, where they work to relate the Center's ethilism to the county's science cathering of the orange of the science of the programs for county teachers. Now that educators must also "teach to the teat" — the detailed Horida Comprehensive Assessment Test, or FCAT — OSC is working to "help teachers] ary a chourdation for the programs and exhibits they're having their students experience" during field trips.

"We help teachers make the connection [as to] how the Science Center can help them teach their students to understand the concepts in the Florida Sunshine State Standards," she says.

For Central Florida's growing number of home schoolen, the Schner Centra har carend special classes geared to primary (first and second grade), intermediate (datied to fifth grade) and middle kohool (sizh through eighth grade) learners. Offered in both fall and spring, the classes "are tangle by trachers who are part of the Science Center staff," Hoyer says, and utilize the Center's eshibis and research facilities.

"They're real classes," Hoyer says. "The students keep a notebook related to the class, and they have homework."

The goal: "to inspire students to become interested in science and math, and more interested in studying them," she says.

The Čenter's educational endeavors are especially important today, says Interim CEO Goldman, because "people learn differently now than they did 50 years ago. People don't do as well reading large volumes of text, [but] they can learn a lot through the Internet and TV, in a self-directed, less linear, more random way."

Most school curricula have not kept up with this new way of learning, and as a result, Goldman says, "we're not turning out many scientists in America. We're importing a lot of scientists."

"This is something that's a national problem," he says. "Learning science on your own is virtually impossible, and you have to be quite dedicated to get over the barrier of entry to enter a science curriculum in college."

By working with the school children to make science exciting and interesting. Goldman says OSC hopes to "provide an inviting environment where people can see scientific things that get them excited about science, and hopefully inspire them to want to learn more."

SCIENCE GETS WIRED

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Onward, cultural soldiers

Although the Science Center has come a long way since the troubled days that followed its opening, future success is no slam dunk. According to Goldman, OSC - and Orlando's cultural life in general - "is at a crossroads. We could go in a lot of different directions here."

One direction is to neglect to learn from the past, and thus to repeat it. If the community fails to get behind its cultural institutions, to provide the volunteer hours and the financial backing they need to thrive, Orlando could remain an also-ran in the race to become Florida's most sophisticated city. But if government, business leaders and community members work together, Central Florida could become, in Goldman's vision, "a cultural center, and a high-tech center, too."

The road to that Eden must be paved with more than sood intentions.

"There are all sorts of reasons you can come up with as to why this is going to be hard to do," Goldman says,

Although many claim Orlando is too transient a community, or too young a place, to build a solid cultural foundation. Goldman says those critics forget how much the area already has accomplished.

"My dad came here in 1956, when I was five years old, so I've seen it come a long way," he says. "We've had about 400,000 visitors to the Science Center, so I don't see that there's a lack of support or interest from the community."

Rather, he says, the local cultural scene has been plagued by a lack of cohesion and a misunderstanding of how best to rally community support.

"People give money because they're involved socially in something." Goldman says. "If their lives are more involved with [a cultural institution], they're going to step up in a much bigger way. The challenge is for us to get more and more people involved."

Through new interactive exhibits, school programs, and feel-good opportunities such as the Adopt-A-Star program, in which people can "adopt" one of more than three dozen constellations for a year, OSC hopes to keep the public interested and excited about science and the Science Center.

"It's about content and depth," Goldman says, "Our success will be determined by the responses we get from visitors." 27M