## Resident builds engineering bridge to students

BY TAYLOR GOLDENSTEIN
Staff intern

Lincoln Logs and erector sets may have been just toys to some children, but for one man, they were the building blocks to a life dedicated to the study of science and en-

gineering.

"I was, (as) all kids are when they build, an engineer," Robert Johnson said.
"Only now I use concrete, steel, masonry and wood."
Johnson, an engineer for more than 40 years and longtime Buffalo Grove resident, has been spreading his knowledge and love of engineering to students for the past 22 years as a participant and coordinator of numerous events in the Chicago area. cago area. "(Engineers)

refer to ourselves as (having) the 'stealth profession' because we are invisible to the public," Johnson said. "So it's rewarding to see the excitement of the kids, and to be able to tell the kids and the parents what we do and contribute to society. A lot of people don't realize the s) sometimes selves as (hav-alth profession'

importance of engineering in their daily lives."

His involvement with children began in 1989 when he first worked with Longfellow Elementary School in Buffalo Grove. However, he soon found balancing lecturing and his professional life too limiting.

"I began looking to other venues where I could speak to students, even adults—at a time more suitable to my work schedule," he said.

And so his journey with education began. Since then, Johnson has shared a part in a host of science outreach programs. He has attended, participated in and coordinated numerous programs, including the Illinois Institute of Technology bridge building contest, the First Robotics Competition and IIT Engineers Week.

His presentations involve hands-on—demonstrations

His presentations involve hands-on demonstrations that explain topics like the planning and construction of buildings and bridges.

"(Johnson)'s got unrivaled enthusiasm about science and engineering," said Heather Imhoff, head of public information services at the Des Plaines Public Library, which holds a yearly

expo modeled after III's eWeek. "He's relentless in continuing to get the word out about it, which is really admirable."

Currently, Johnson is most heavily involved with the National Engineers Week Future City competition (fature city competition)

the National Engineers
Week Future City competition (futurecity.org), a regional competition for sixth-,
seventh- and eighth-grade
students, for which he is a
volunteer and public relations specialist.

The competition combines
the use of SimCity 4 Deluxe
software with the building
of physical 3D models and
the writing of essays to allow
students to design their own
"city of tomorrow."
Each regional competition
feeds into a national competition, culminating in the
winning team receiving a
grand prize of an all-expenses-paid trip to U.S. Space
Camp in Alabama.

"If you can do well in engineering, more than likely you
can do well in probably any
profession," Johnson said.

Johnson was first steered
toward the profession because of a family friend who
introduced him to structural
engineering. He received
both his Bachelor's and
Master's degrees in civil engineering from HT. He then
worked for 25 years as an associate at Alfred Benesch &
Co., where he was a project
manager in the building department.

merous Chicago projects, including the Chicago Mercantile Exchange building, the south addition to the McCormick Place convention center and the 900 North Michigan building, a 67-story shopping destination. Locally, he engineered the Claremont Rehab & Living Center in Buffalo Grove in 1993.

It was there that he met Mark Knobel, a young colleague. It being Knobel's first job in the country, Johnson served as his mentor.

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"I was very lucky to get to know him and work with him," Knobel said.

In 1996, Johnson decided he wanted to work in the suburbs. So he went to work at Ambitech Engineering as the principal engineer, where he renovated and inspected industry plants and also did structural engineering work for an electrical co-

generation plant.

"But my first love was working downtown on high-rises," he said.

So upon Knobel's invitation in 1999, Johnson agreed to work at Bowman, Barrett & Associates. He oversaw the structural design and construction of a variety of projects, including many high-rise condominiums and even a few nursing homes in the area. Building inspections and account of the structural design and even a few nursing homes in the area. Building inspections and several structures are several services. ions and peer reviews were also part of his job descrip-

"With a lot of projects, clients would ask for (Johnson) to work on the project, otherwise they wouldn't give the project to the company," Knobel said.

pany's senior vice president.
In addition to his professional endeavors, Johnson is involved in many engineering societies, such as the Structural Engineers Association of Illinois, National Council of Structural Engineers Associations and American Society of Civil Knobel now is the com

Engineers.

He is also the recipient of many awards, including the Robert Cornforth award from the NCSEA.

He was recently given the Excellence in Educating Our Children in Engineering Award by Frank Avila, a commissioner with the Metropolitan Water Reclamation District of Greater Chicago. The presentation of the award, as well as a sample presentation of Johnson's, aired on CAN-TV and be viewed online (http://blip.tv/avila-media-nfp/robert-biohnson-educating-children-

about-engineering-5271390).

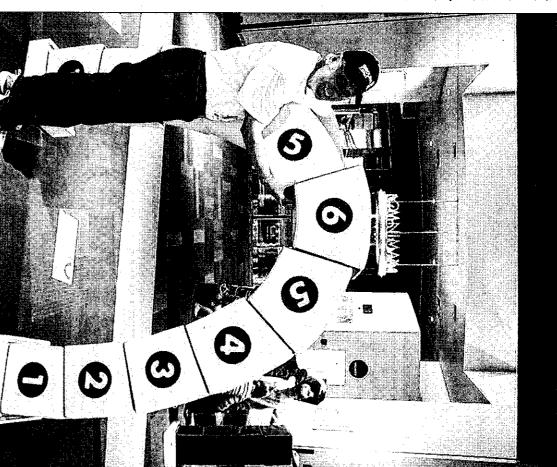
"I don't know of anyone who would be more dedicated to promoting the engineering profession than Bob," Knobel said. "He has he talent of being an educa-

Johnson recently "semi-retired," as he calls it.

While he's still open to
work in the field, his time off
has given him "a little more
time to participate in engineering programs," which he

enjoys.

"The key thing is to make (children) aware of the importance of science and technology on their daily lives and how it impacts them," he said.



Bob Johnson places the falo Grove resident has keystone in an arch he built at the Science Center in St. Louis. The Bufbeen honored for his longtime work in promoting engineering to youth



Johnson gives a demonstra Plaines Library. during the annual Tech Expo at the Des