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STC awarded OSPE Outstanding Engineering Achievement

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Service and Technology Corporation was awarded Oklahoma Society of Professional Engineers 2003 Outstanding Engineering Achievement on Aug. 1.

Kumar Krishnan, P.E., vice president of STC, received Outstanding Engineer recognition. This recognition is given for exceptional leadership, effort, initiative and success of an engineer for progressing the engineering profession.

Krishnan came to the United States from India in 1987. He has a degree in printing technology and had worked in the newspaper business in India. He received his mechanical engineering degree from Wichita State University in 1992.

"It's a tremendous honor and the fact that I've been able to associate with STC and my previous employer is what gave me the opportunity to work in the engineering profession and provide service," Krishnan said.



Kumar Krishnan, P.E., vice president of STC-SMC, looks over paperwork with K. Vasudevan, President and C.E.O of STC-SMC. STC was awarded the Oklahoma Society of Professional Engineers 2003 Outstanding Engineering Achievement on Aug. 1. Kumar Krishnan, P.E., vice president of STC, received Outstanding Engineer recognition given for exceptional leadership, effort, initiative and success of an engineer for progressing the engineering profession.

Each OSPE chapter reviews candidates and nominates members for recognition. OSPE, through its Honors and Awards Committee, annually recognizes outstanding engineering individuals, organizations and projects.

The Outstanding Engineering Achievement recognizes achievements, completed during the calendar year, that

capture the strong and creative spirit of the profession.

The achievement was awarded to STC and its wholly-owned subsidiary Service and Manufacturing Corporation for their completed design and shop fabrication of an entire pilot plant at their Bartlesville facilities. The pilot plant is comprised of 15 separate modules including a reactor column which is approximately 55 feet tall and weighs nearly 42,000 pounds. The modules were combined at Syntroleum Corporation's pilot plant, which converts liquid fuel from natural gas feedstock, in Catoosa.

"It is a greatly appreciated recognition of the organization especially in Bartlesville and we are personally and all of our staff are very happy that we had that recognition," STC President and C.E.O., K. "Vasu" Vasudevan said.

The technology for the project was developed by Syntroleum and given to STC to perform the detail design and SMC to build the plant so it could be completed economically and at a fast pace. According to STC the design-build activity included chemical, mechanical, civil, structural, piping, instrumentation, electrical and controls engineering, all provided by the staff at STC. Procurement, manufacturing and testing were completed by SMC.

The design-build began February 2002 with the initial 12 modules slated for shipping by the end of June. According to STC all modules were fabricated with more than adequate spacing to all personnel, providing easy access to equipment, instrumentation and electrical panels. The result was a project that truly defied conventional wisdom that "modular plants must be crammed."



K. Vasudevan views the home-grown oil refining unit designed by STC and built by SMC, both located in Bartlesville.

"This was a milestone project in a lot of ways for us. It was the first major (design-build) that we have had, to integrate the engineering provided by STC and the manufacturing provided by SMC, as far as a large scale modular process.

"It worked well. We were able to capitalize on being able to design it and build it ourselves, as opposed to a typical [situation, where] one person designs it, and somebody else builds it," Brian Farnsworth, P.E., director of business development, said.

"One of the reasons we were able to do it in such a short time span was because of that. Design was going on in some areas while the manufacturing was going on at the same time. Here people were working side by side," Vasudevan said.

STC, located in the old Lincoln School at 105 S.W. Penn, are consulting engineers who provide services in all primary fields of engineering. Opened in 1986, STC employs 60 to 70 people.

STC has designed projects ranging from 2 man-hours to 96,000 man-hours. They have completed over 2 million man-hours of engineering which translates to over 2,500 projects.

SMC is a manufacturing corporation which produces custom products for industry and people. They produce anything from toothpick dispensers to complete plants.