

Brigham Native to Establish Electronics Research Center



Dr. J. Leland Seely, a native of Brigham City, will direct the opening of an Advanced Micro-electronic Research Center at 19 East Oakland Ave. (2475 South) in Salt Lake City, for the General Instrument Corp.

The center is believed to be the first research facility exclusively devoted to metaloxide silicon microcircuitry.

General Instrument Corp. is a widely diversified producer of electronic components with some 13,000 employees at 20 plants and research facilities.

DR. SEELY, WHO RECEIVED his Ph.D. in physics from the University of Utah in 1962, has been directing MOS operations at General Instrument's Hicks-

ville, N.Y. facility since March, 1966.

"MOS integrated circuits are an advanced type of semiconductor device that allows several hundred transistors to be fabricated and interconnected on a chip of silicon only 60-thousandths of an inch square," Dr. Seely said. "This is something like being able to put all the vacuum tubes from 20 televisions sets into this tiny area."

THE NEW FACILITY will initially involve about 25 professional and support employees and a yearly payroll of a quarter-million dollars, Dr. Seely pointed out. He noted that if current markets evaluations prove correct, size of the Salt Lake City operation is expected to "grow rapidly."

"The potential exists from upwards of 2,000 employees if a manufacturing operation is added," he said.

WORK DONE AT THE center will be highly technical and require skilled persons trained in solid state physics, electronic, chemical and mechanical graphy.

Dr. Seely said research would be conducted on all phases of the MOS technology.

A son of Mr. and Mrs. F. Leland Seely, 824 East First North, Brigham City, Dr. Seely is a graduate of Box Elder High school. He will move his family to Salt Lake City to reside.

TO OPEN CENTER — Dr. J. Leland Seely will open electronics research center in Salt Lake City.

Salt Lake Tribune Business

AP—UPI—New York Times—Chicago Daily News—Chicago Tribune—New York News



Dr. J. Leland Seely

Electronics Firm Charts Research Center in S.L.

General Instrument Corp., a widely diversified producer of electronic components with some 13,000 employees at 20 plants and research facilities, will open an Advanced Microelectronic Research Center in the former Deseret Pharmaceutical Building, 19 E. Oakland Ave. (2475 South).

The center, slated to open in February under direction of Dr. J. Leland Seely, is believed to be the first research facility exclusively devoted to metal-oxide silicon microcircuitry.

Advanced Device

"MOS integrated circuits are an advanced type of semiconductor device that allows several hundred transistors to be fabricated and interconnected on a chip of silicon only 60-thousandths of an inch square," Dr. Seely said Monday.

"This is something like being able to put all of the vacuum tubes from 20 television sets into this tiny area."

Dr. Seely, who received his Ph.D in physics from the University of Utah in 1962, has been directing MOS operations at General Instrument's Hicksville, N. Y., facility since March, 1966.

\$250,000 Payroll

The new facility will occupy 20,000 square feet of leased space and, initially, will involve about 25 professional and

He noted that if current market evaluations prove correct, size of the Salt Lake City operation is expected to "grow rapidly."

"The potential exists for upwards of 2,000 employees if a manufacturing operation is added," Dr. Seely declared.

Ability to produce this type circuit inexpensively has stirred interest throughout the entire electronics industry, he continued, explaining that flight control and radar and sonar systems, digital computers and facsimile equipment, delay lines, particle detection, multiplexing and telemetry are but a few of the uses already discovered for MOS devices.

New Uses Developing

"And new uses are developing almost daily," the center director pointed out.

Work done at the new center will be highly technical and require skilled persons trained in solid state physics, electronic, chemical and mechanical engineering and microphotolithography, Dr. Seely said.

Engineering personnel at the center will work closely with customers to determine feasibility of customer proposed systems as well as "house" projects and will arrive at proper design of circuitry actually involved, he noted.

Plan Research

Dr. Seely said research