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FOR: BECKMAN INSTRUMENTS, INC.

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Beckman Instruments, Inc., yesterday announced the establishment in the Stanford community of the Shockley Semiconductor Laboratory to develop and produce transistors and other semiconductor devices in the field of advanced electronics for automation.

The news was revealed by Dr. Arnold O. Beckman, founder-president of Beckman Instruments at a luncheon for scientists, educators and the press at the Hotel St. Francis.

Headed by Dr. William Shockley, inventor of the junction transistor, as director, the nucleus of the rapidly expanding research team consists of four Ph.D's: G. Smoot Horsley, formerly of Motorola and Bell Laboratories; Leo B. Valdes, formerly of Pacific Semiconductor, Inc., and Bell Laboratories; William W. Happ, formerly of Raytheon Manufacturing Co., and Sylvania Electric Products; and R. V. Jones, who has just completed training at the University of California at Berkeley. The first three are experts in the field of semiconductors, the basic material of transistors which are revolutionizing the electronics field by replacing the vacuum tube. Jones' research work, in a different branch of physics, has direct application to some basic semiconductor problems.

Quartered temporarily in Mountain View, the group will move into the new research and development center Beckman is building in Stanford Industrial Park for its Spinco Division and the Shockley Semiconductor Laboratory. Completion of the facility is scheduled for August.

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Addressing the luncheon guests yesterday, Dr. Beckman declared: "The establishment of the Shockley Semiconductor Laboratory at Stanford is a major step in enlarging the scope of electronics activities in California, and I expect it to contribute directly to our continuing effort to develop better instrumentation for industry and science.

"Dr. Shockley brings to our organization leadership in the important new field of semiconductor electronics. His vital contributions to technological progress already are well known, and we at Beckman Instruments are confident the work of Dr. Shockley and his team of leading research scientists will yield many significant contributions to electronics in this expanding age of automation."

The transistor, with its small size, low power requirements and extremely long life is destined for a major role in the development of automation, in the opinion of Dr. Shockley who predicts that transistor production will increase by one hundred to one thousand fold in the next five to ten years.

"With the guidance of Dr. Beckman," Dr. Shockley stated, "I plan to build the most creative team in the world for developing and producing transistors and other semiconductor devices.

"Recent developments in physics and chemistry indicate great future expansion for semiconductors. We have found corresponding phenomena in transistor and vacuum tube electronics which suggest ways in which transistor counterparts may be made for a wide variety of vacuum tubes now in use.

"Our location near Stanford will enable us to attract outstanding technical personnel for our group and permit close association with the University. The encouragement given our new enterprise by Provost F. E. Terman, Dean of the Stanford Engineering School, and his colleagues convinces me that we can cooperate by helping establish a

new solid state electronics program at Stanford while profiting in our activities from the scientific stimulus of the University and the educational opportunities for our personnel."

Dr. Shockley left the position of Director of Transistor Physics Research at Bell Laboratories to join Beckman Instruments, Inc. During World War II, he served as Director of Research for the Navy's Anti-Submarine Warfare Operations Research Group and was a consultant to the Secretary of War.

Dr. Shockley also served as Deputy Director and Research Director of the Weapons Systems Evaluation Group for the Department of Defense and was a visiting professor of physics at the California Institute of Technology.