



El milagro económico mexicano en Guadalajara

Dr. José Luis Leyva-Montiel

Contact: luis.leyva@cinvestav.mx

Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional.

Abstract.



Algunas universidades han jugado un papel central en la promoción del desarrollo de la industria de alta tecnología en su región. Dos casos emblemáticos son: la Universidad de Stanford y su labor para establecer empresas tecnológicas que luego convirtieron parte del Valle de Santa Clara en lo que hoy conocemos como Silicon Valley, y el Instituto Tecnológico de Massachusetts, que han jugado un papel clave en la incubación de empresas de alta tecnología basadas en el conocimiento en el área de Boston. En esta plática se revisa el trabajo realizado por el Centro de Investigación y de Estudios Avanzados del I.P.N. (Cinvestav) en el diseño de dispositivos semiconductores y sistemas electrónicos para la industria de alta tecnología en Estados Unidos de América. Mismo que sirvió de base para que en conjunto con autoridades gubernamentales y líderes de la industria nacional se desarrollara la industria de alta tecnología de Jalisco.

Graduated from the National Polytechnic Institute of Mexico in Electronic Engineering in 1980. He received the degree of Docteur-Ingénieur in Automatic Control from the École Nationale Supérieure de Mécanique de Nantes in France in 1986. In 1986 he joined the Centro de Investigación y de Estudios Avanzados (Cinvestav).

He is one of the founders of the Centro de Tecnología de Semiconductores (CTS), the Cinvestav engineering group created in 1988 in Guadalajara to provide design support for semiconductor integrated circuits to the electronics industry. At CTS, he carried out numerous design and development projects of VLSI semiconductor devices, computer based and telecommunications systems for the companies IBM, HP, AT&T, 3M, LevelOne in the United States. Several of these designs appeared as products in the US, Japanese and Canadian markets.

In 2000 he was appointed director of the Cinvestav Guadalajara campus. Under his direction, the Cinvestav Guadalajara campus became one of the hubs that actively contributed to the development of the high-tech industry in the State of Jalisco.

He has received several recognitions from the electronics industry, the Government of the State of Jalisco and the Federal Government, among them, the National Prize for Sciences and Arts in 2009. From December 2015 to 2020, he was appointed as deputy director of strategic planning at Cinvestav. He is the author of dozens of technical design specifications for integrated circuits and telecommunications systems. He has authored several patents in medical electronics and is currently conducting research on nervous system data network and developing medical telemetry devices. He helped many companies to start operations in Guadalajara, among them: BEA, Mixbaal, TDCOM (acquired by Intel in year 2000), DDTec VDO Siemens (now Continental VDO) and ST microelectronics.