

Science and Engineering Services, Inc.

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Dr. Hyo Sang Lee received his bachelor's degree in Physics from Seoul National University in 1970, his Master's and Ph.D. degrees in from Lehigh University in 1976 and 1980 respectively. He is an expert in the area of lasers and electro-optical system development, medical optics and lidar remote sensing. He has "hands-on" experience in organizing and managing a firm from formation through a decade of developmental stage growth. Dr. Lee has extensive experience in multi-disciplinary R&D program management and worked on electro-optics instrumentation, optical system development and scientific research. In particular, his innovation and involvement with the pseudo-random modulation (PRM) correlation technique is unique. He is the inventor and sole researcher for PRM technology in conjunction with the near IR noninvasive tissue diagnosis. He has been the principal investigator on a number of SBIR programs for **NIH**, NASA, DoD, and NSF in the development of a unique PRM lidar system and unique solid state laser systems for space applications and differential absorption lidar (DIAL) measurements. Currently, he is leading programs to develop a various electro optics sensors for medical applications as well as atmospheric remote sensing. He is well experienced in the development of tunable solid state laser systems based on alexandrite and LiSAF crystals. He worked on various NASA programs as a laser scientist for high altitude airborne flight laser development. He has participated in airborne lidar measurement of atmospheric pressure and temperature. In addition, he was involved with detector response characterization and airborne lidar system development. He has been a consultant on the high altitude sounding of atmospheric temperature and ozone, multi-beam microwave altimeter development, and MARS lidar altimeter system link analysis and performance modeling. At present, he is the President and CEO of Science & Engineering Services, Inc. in Burtonsville, Maryland.

National Institutes of Health Awards

Tunable IR Laser Mass Spectrometer for DNA Analysis	(GM 53885)
IR MALDI Ion Trap Mass Spectrometer for DNA Analysis	(HG 01968)
Noninvasive Photoacoustic Intracranial Pressure Monitor	(NS 37275)
Clinical Test of NIR/PRM Sensor for Head Injury Diagnosis	(NS 38394)
Compact LISAF Laser Multiphoton Fluorescence Microscope	(RR 13091)