

KEY CONTRIBUTIONS

- Establishment of acoustic and electronics test facilities.
- Development of Acoustic Tide Gauge (ATG) and establishment of an 8 node ATG network.
- Development of algorithms and test rigs for Tsunami early warning system.
- Lead role in the establishment of underwater systems and vehicle ecosystem comprising of:
 - Deep water Remotely Operated Vehicle ROSUB 6000.
 - Deep sea in-situ soil tester.
 - Deep water autonomous coring system,
 - Polar/Shallow water ROV
 - Deep water Manned scientific submersible
 - Poly metallic nodule mining system
- Transfer of ROV technologies to Indian Industries including L&T and BEL.
- Chief scientist of >20 cruises and scientific explorations on board various research vessels.
- Led various search operations for civilian and defense sectors using in-house ROVs.
- Led team to Antarctica as part of 34th Indian Scientific Expedition and qualified the indigenously developed Polar ROV in Eastern Antarctica
- Coordinated ROV-based bio-diversity studies in the Indian coasts and island regions.

- Member of
 - Naval Research Board
 - Review committees of NSTL & CVRDE of DRDO
 - National Gas Hydrate Program
 - India-Norway task force for Blue economy.
 - Indian delegation to International Sea Bed Authority
 - Research Council of Tamilnadu Dr J Jayalalitha Fisheries University,

- Initiated inter-ministerial networked programs with ISRO-VSSC, IIRS, LEOS, CSIR-CMERI & NGRI for national technological capacity building in areas of underwater systems.
- Memorandum of Understanding with Krylov State Research Center, Russia,
- International collaborative programs with Russia, USA, Japan and Norway.
- Central Public Information Officer of NIOT.

PROFESSIONAL MEMBERSHIP

- Member of IEEE OES India Chapter (Founding Secretary)
- Life Member Ocean Society of India