

The University of Oklahoma

HOMER L. DODGE DEPARTMENT OF PHYSICS AND ASTRONOMY

VENKATESAN, THIRUMALAI Co-Founder of: Neocera LLC (Beltsville MD) Neocera Magma LLC (Beltsville MD) Director, Center for Quantum Research and Technology (CQRT) Blue Wave Semiconductors (Baltimore, MD) Cellivate (Singapore) Founding Director, Center of Optimal Materials for Emerging Technologies (COMET) Professor of Physics and ECE Breathonix (Singapore) Azometrix (Washington DC) Metanoia Sensing Technologies (Singapore) Lin Hall, University of Oklahoma, Norman OK 73069 . . _ ~ .

Professional Ex	perience:
2021Present	Director, CQRT and Professor of Physics and ECE University of
2022Present Technologies (C	Founding Director, Center of Optimal Materials for Emerging OMET)
2018–Present	Affiliate Scientist- NIST Gaithersburg, MD
2020 - 2022	Adjunct Professor, ECE Department, National University of Singapore, Singapore
2008 - 2019	Founding Director, NUSNNI- NanoCore, National University of Singapore (Singapore)
2007 - 2008	Visiting Professor, National University of Singapore (Singapore)
1990 - 2008	Professor of Physics and ECE, University of Maryland, College Park, MD
1990 1990	Professor of Physics and Ceramics, Rutgers University, New Brunswick, NJ
1989 - 2019	Founder, Chairman of Board and Chief Technology Advisor, Neocera, Beltsville, MD
1986 - 1988	Founder/Director, Rutgers University, Surface Modification Center, New Brunswick, NJ
1984 - 1990	Head of Surface Division, Bellcore, Red Bank, NJ
19841984	Visiting Scientist, California Institute of Technology, Applied Physics, Pasadena, CA
1973 - 1984	Research Fellow / Member Technical Staff, Bell Labs, Murray Hill, NJ

Educational qualifications:

1977 1971 1969 B.S	Ph.D City University of New York and Bell Laboratories (Physics) M.S Indian Institute of Technology, Kanpur, India (Physics) S. (Honors) - Indian Institute of Technology, Kharagpur, India (Physics)	
Awards and d	listinctions	
2022		
2022		
2021		
2021		
2020		
2016	Elected Fellow of the Singapore National Academy of Sciences	
Elected Fellow Elected Fellow	w of the Asia Pacific Artificial Intelligence Academy w of the National Academy of Inventors	
Elected Fellow	w of Materials Research Society	
Distinguished	Lectureship Award on the Application of Physics- American Physical Society	
Nominated-We	orld Economic Forum- Committee member for future advanced materials	
2016	Outstanding Alumnus Award, IIT Kharagpur	
2015 2014	Outstanding Alumnus Award, IIT Kanpur	
2013 - 2019		
2013		
2012 Drawat Chain	President's gold medal - Institute of Physics, Singapore	
Academician	Protessor, NUS Asia-Pacific Academy of Materials	
George E Pake	Prize of American Physical Society for excellence in Research Management	
2005 - 2008	Honorary Guest Professor, Tsinghua University, Beijing	
2003	Fellow of World Innovation Foundation	
1987	Fellow of American Physical Society	
1987	Bellcore Award of Excellence	
HELPING BUIL	D RESEARCH TEAMS. CENTERS. INSTITUTE	
1977-1984	Facility for Advanced Ion Beam Processing of Materials, Bell Labs, Murray Hill NJ	
1984-1990	Recruiting a world class team to build Bellcore from scratch	
1985-1987	Founding Director of Rutgers Surface Modification Center	
1987-1990 Bellcore	High Ic Superconductivity-University, industry, national Labs collaboration at	
1990-2007 UMD	Center for Superconductivity- MRSEC-World class Oxides Research Program at	
2008-2019		
2021- Now	NUC Negacience & Negatechnology Institute NUC Cincensus	
2022- NOW	antum Research and Technology (CORT) Univ. of Oklahoma	
Center of Opt	imal Materials for Emerging Technologies (COMET), Univ. of Oklahoma	
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Research Fun	iding: ah Ta Pasaarah at Bollaara OND, DADDA and EDDI 5M	
1990-2008 Ur	niversity of Maryland (Major Funding in US\$)	
NSF MRSEC Support over three successive terms (15Y, Williams/Ramesh) 30M		
US Army/Navy	Funding 3.6M	
DARPA	$\frac{2M}{2M}$	
2000-2010, Na Startun funde	for establishing Nano Institute at NUS 40M	
Annual support for NUSNNI over 5 years 10M		
NRF CRP on Ta	ailored Oxide Interfaces 10M	

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