



## DR. N. KRISHNAMURTHY

Consultant: Safety ♦ Structures ♦ Computer Applications

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### PERSONAL PARTICULARS

**Born :** 29 October, 1931, at Bangalore, India. **Citizenship:** India  
**Residence :** Burma (Myanmar) (1931-1941), India (1941-59, 1962-67, 1988-1999)  
USA (1959-62, 1967-81), (U.S.A. Permanent Resident, 1967-81)  
Singapore (1981-88, 1999-Present), **Singapore P. R.:** I.C. No. S2202789A

### ACADEMIC CAREER

Years	Institution and University	Qualification	Awards
1959-1962	University of Colorado, Boulder, Colorado, USA	M.S. (CE) (1960) and Ph.D. (1963)	India-USA Govt. Scholarship; Straight 'A' Grade; Coloradan Pacesetter Award; Intl. Goodwill Award; Presid.'s Academic Excellence Citation
1951-1955	National Institute. of Engineering, Mysore Univ., Mysore, India	B.E. (Civil) (1955)	First for College in Final Year Ranks in first three years
1949-1951	Central College, Mysore Univ., Bangalore, India	B.Sc. (1951)	English First Prize (Gold Medal)
1947-1949	St. Joseph's College, Madras Univ., Bangalore, India	Intermediate in Science (1949)	Distinction in Physics, Chemistry, and Mathematics
1941-1947	St. Joseph's Indian High School, Madras Board, Bangalore, India	S.S.L.C. (1947)	Burma Govt. Scholarship for 1941-1942 Academic Achievement Awards
1936-1941	Kamayut Primary School, Kamayut, Burma (Myanmar)	-	First in All-Burma Scholarship Examination, 1941

### PROFESSIONAL EXPERIENCE

Years	Organization	Designation	Responsibilities
<b>CURRENT SINGAPORE-BASED ACTIVITIES</b>			
2011-	RSTAR Academy, S'pore	Lect., Short Courses	Risk Mgmt., Welding tech., Constn. safety
2008-	IES, BCA, Singapore	Lect., Short Courses	Work at Ht., Formwork, Risk Mgmt., Value Engrg.
2004-	SPRING, Singapore	Editorial Consultant	Editing of Singapore Standards; short courses
2004-	Ministry of Manpower, Private parties, Attorneys, S'pore	Forensic Consultant, Expert Witness	Accident investigation & reporting, Consultancy, Court Appearances, Courses [Details on request]
2002-	SETSCO, Singapore	Lect., Short Courses	Welding Technology, design and safety
2001-	SCAL Academy (Ex. SC2)	Lect., Short Courses	Scaffold, Formwork, Risk Management
2000-	Various Government and private organizations	Consulting, lectures, accident investigatn. and expert witness	Resolution of structural design and safety related problems; consultation for court-related matters on workplace accidents and litigation
<b>COMPLETED SINGAPORE-BASED ACTIVITIES</b>			
2012-16	WSH Institute (Gov. of S'pore)	Principal Investigator	Research on Working Safely at Height
2012-13	UniSIM, Singapore	Associate Lecturer	BPM205, Productivity Management
2010-14	PSB (U. of Newcastle, AU)	Associate Lecturer	PHIL3910-Technology and Human values
	National Univ. of Singapore	Visiting Faculty	EG2401: Engineering Professionalism
2010-19	PSB (U. of Newcastle, AU)	Associate Lecturer	OHSE3740- Risk Assessment and Management
2009-10	MOM-WSH Council, S'pore	Principal Investigator	Research to Enhance Effectiveness of Risk Mgmt
2009-19	Macmet India Ltd., Kolkata, IN	Director, & Consultant	Participation in mgmt policy – Struct. Consultancy
2004-08	Ministry of Manpower	Consul. & Expert Witn.	Investigate formwork collapse with two fatalities
2002-08	HDB, MOM, CFS, TTID-Hong Kong, EEM-Kuala Lumpur	Lect., Short Courses	Temp. Structures, Welding Technology & Safety, Construction Design, Erection & Safety
2001-08	LKC Consultants, S'pore	Consultant	Post-processors for computer structural analysis
1985-2008	QE Design Systems, Singapore	Director, S'pore; Tech-Dir., India; Consultant	Computer appl. in Struct. Eng.; GTSTRUDL and CADS training; Steel design; Crane weld design
1999-2003	National Univ. of Singapore	Part-time Faculty in C.E. Dept.	Post-graduate courses in finite element methods, dynamics etc.
1981-88	National Univ. of Singapore	Assoc. Prof. of C.E.	Teach Undergrad. Subjects in C.E.; Consultancy

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**PROFESSIONAL EXPERIENCE (Continued)**

Years	Organization	Designation	Responsibilities
<b>COMPLETED USA-BASED ACTIVITIES</b>			
1979-81	University of Alabama in Birmingham, Ala., USA	Professor and Dept. Chairman, Civil Engrg.	Teaching, Research, Consultancy, and Dept. Administration
1967-81	State Govts., private parties	Consultant	Consultancy on struct. and mech. failures
1975-79	Vanderbilt University, Nashville, Tenn., USA	Visiting Prof. of C.E., and then Research Prof.	Teaching, Research, and Consultancy
Summers 1967, 8	Oak Ridge Natl. Lab., U.S. Nuclear Comm., TN, USA	Scientist, Appl. Mech. Sec., & Consultant to HSST prog.	Stress Analysis of Nuclear Reactors and Thick-walled Pressure Vessels
1967-1975	Auburn University, Auburn, Alabama, USA	Associate Professor, and then Prof., C.E.	Teaching, Research, Consultancy
<b>CURRENT AND COMPLETED INDIA-BASED ACTIVITIES</b>			
2019-	Centre for Workplace Safety and Health, NIE, Mysuru	Founder-Director	Short courses on workplace safety, risk management, etc., consultancy.
2018-	National Inst. of Engineering, (NIE), VTU, Mysore, India	Distinguished Academic Visiting Expert	Specialised courses for practicing engineers and students, consultancy
1999	Mahajana's College, Mysore University, India	Visiting Professor of Comp. Applications	Teaching Computer Concepts, Finite Element Methods
1998	Excel-Soft, Mysore, India	Consultant	Project Management, Training
1993-1995	Infosys Technologies Ltd., Bangalore, India	Consultant	Software Development, Communication skills; Chairman - Stock Option Commit.
1993	Natl. Inst. of Engg, Mysore	Visiting Faculty, Comp. Sc.	Teaching Comp.Graphics for BE(CompSc)
1989-1992	S.J. College of Engineering, Mysore University, India	Visiting Professor, Civil Engineering	Teaching FEM Course for M. Tech. in Industrial Structures
1988-1999	Vidyaranya Academy of Computing, Mysore, India	Director & Prof. of Comp. Appl., Pres., Gov. Council	Training, Consultancy, Software Development, Centre Administration
1962-1967	National Inst. of Engineering, Mysore University, India	Reader in C.E., & then Addl. Prof., & Acting Head	Teaching, Laboratory Development, Department Administration
1955-59	Natl.Inst.of Eng.,Mys.U.,India	Lect., & then Reader in C.E.	Teaching, Laboratory Development

**HONOR AND PROFESSIONAL SOCIETIES**

<b>Honor Societies</b>	: Chi Epsilon; Sigma Tau; Tau Beta Pi (Academic Honor Societies, all from USA).
<b>Fellow</b>	: ASCE, ( <i>Founder President, S'pore Section</i> ); Singapore Structural Steel Society ( <i>Founder-President</i> ); Instn. of Engineers (India); Assn. of Consult. C.E.(India) [I was P.E. in Ala., USA.]
<b>Member</b>	: ASSP; Institution of Engineers (S'pore); S'pore Instn. of Safety Officers; <u>Hon. Mem.</u> : Precast & Prestressed Conc. Soc. (S'pore), ACCE(I), MES [ <i>Ex-ASEE; SRA(USA); Sigma Xi (USA)</i> ]

**INVENTIONS AND COPYRIGHTS**

<b>SAFER Diamond</b>	: Computer-graphics based technique for risk assessment with minimal input of likelihood and severity, patented in Singapore and Australia.
<b>Bar-Pod</b>	: Scaffold/falsework modular system design to local codes for fast erection and safe use.
<b>Safe-Walker</b>	: Automatic seat support aid for persons collapsing while walking ( <i>Pending</i> ).
<b>Krishna-Dheva</b>	: A Sanskrit-English transliteration scheme, copyrighted in India.

**PUBLICATIONS**

<b>Books</b>	: "Introduction to Bridges", Two Editions, 1959, 1963 "Introduction to Computer Graphics", VAC, 1993, Tata McGraw-Hill, India (& S'pore), 2002. "Structural Welding", (with Liew, Rao, and Sze), SSSS & BCA, 2002. "Introduction to Risk Management", ISBN: 978-981-05-7924-1, 86 p., 2007 "Part I, Finite Element Method", in "Finite Element Analysis in Implant Dentistry", with Geng, P., and W. Xu (Editors), Hong Kong Tranfor Publishing Co. Ltd., 2006. Elsevier Edition. "Introduction to Enterprise Risk Management", ISBN: 978-1539436287, 2016; Partridge (2019) "Essays on Forensic Engineering", ISBN: 978-1973970040, 236 p., 2017. NINE books in my 'ABC of Life' Series, plus a book of short stories, and a novel in the works, self-published (Print-on Demand) through Amazon (USA) [ <i>Details on website</i> ]
<b>Technical Papers</b>	: Over 100 Papers in refereed Journals, Conference Proceedings, and professional magazines, on structures, computer applications, workplace safety & risk management, and forensics.
<b>Reviewer / Editor</b>	: Technical books/journals for Applied Mechanics Reviews, ASCE, PCI, McGraw-Hill, SRA, etc. Chief Editor: <i>Guidebook on Scaffolds (2004)</i> , published by SCAL. Reviewer for Elsevier.
<b>General Articles</b>	: Feature articles, essays, and photo-features in <i>Illustrated Weekly of India</i> , <i>Deccan Herald</i> , <i>The Hindu</i> , <i>Times of India</i> etc., as Freelance Journalist. Articles on ethics, Hinduism etc.

**MISCELLANEOUS**

<b>Other Teaching</b>	: Lectures on communication, ergonomics, comparative philosophy etc. to various organizations. Talks on my " <b>5A-Way</b> " – motivational schema for decision-making.
<b>Hobbies</b>	: Photography, reading, poetry (Limericks), music; Sudoku; Quora – Life counselling.