

NOVEMBER 1989

W Pugh Emerson To Welcome Warm IEEE President



The major technical activity of IEEE Kerala Section for the year 1989 is the National Seminar on "Lasers in Enginiering and Medicine (LasEM-89)" being held from 30 Nov. to 2 Dec. 89 at Trivandrum. The seminar has evoked significant interest among the scientists and researchers working in the area, in the country and outside. A number of papers will be discussed and distinguished lectures delivered. Considering the increasing applications of lasers in the field of engineering and medicine, the Seminar will bring to focuss the state of the art in the subject and provide a forum for evaluation of laser applications in the country and policy planning for more co-ordinated efforts towards further advancement.

Kerala Section considers it a great honour to have Dr. Emerson W. Pugh the distinguished President of IEEE to inaugurate this important Seminar. IEEE Head Quarters has always evinced keen interest in the activities of this section and

ren Jered guidance and support in all technical endeavours. We believe that Dr. Pugh's visit will pave way for fur her strengthening IEEE activities in India. The President of the largest transnational Engineering Society having 39,000 members in over 130 countries, Dr. Pugh is an eminent scientist in the computer and information technology area. He has held senior management positions in IBM and presently with IBM/Watson Research Centre, N.Y. A fellow of IEEE, Dr. Pugh has several publications and patents to his credit. Kerala Section extends a warm welcome to Dr. Pugh. At 101 eattimmed evituaex3 E. E. Rajakumar

From Chairman's Desk

The world today is at Cross-roads, needing help from all centres to solve the inultitude of problems,-man-made as well as those imposed by vagaries of nature. The time has come for the engineering community to play a key-role in the society, more than ever before. Innovative solutions based on sound engineering principles are needed in many facets of life, where, a je-old, conventional methods fail to deliver goods. Professional organizations like IEEE, have two options in front of them, at this juncture: - Watch from the side lines in a passive way ow only your one and another ct ballique se-eget into the arena and fight the battle second prairie le 101 esteupebe nadt

Obviously, we should not be complacent; this is the time when we can go out into the open and help our brethren. There is an urgent need for each member to become aware of this responsibility and play their individual roles effectively—lest the Society will not accept and allow Eighteen airplanes would crash in America everyday the existence of bodies like I E E E.

November 1989 is an important month for Kerala Section. Dr. Emerson W. Pugh, President, IEEE, is visiting the Section in connection with the inauguration of the National Seminar on" Lasers in Engineering and Medicine (LasEM 89)" on 30 Nov. 89. A fitting tribute to our honoured guest would be a rededication of ourselves to the Service of the Society.

N. T. Nair

martor tare defects starts to make a lot of sense, isn't it ?

Trivandrum Courtesy: N. T. Nair 68' vol 22 I E E E Kerala Section

OFFICE BEARERS From Secretary's Desk -1989-During the last decade IEEE Kerala Section has been in the forefront of other professional organisations of the State. During this period section organised an average of 26 technical talks every Vear and one National Seminar on topics of current relevance. Prof. V.K. Damodaran The topics of the Seminars held in the prevoius years are Computer Applications in Power System Secretary Solar Energy Solar Energy A.G. Hareendralal Treasurer - Frontiers in Communications ei each nee Koruthu P. Varghese en 3331 lo vilvi Super Conductivity edT Chairmen of Committees

1988 was a very hectic period for the section. 42 nos. of
Student Activities

1988 was a very hectic period for the section. 42 nos. of Prof. N. K. Rajagopal technical talks, 2 nos of tutorials and one national seminar on Super Conductivity were organised during this period. berevileb corutael bedringnitaib bnc bear Technical Activities ni areasi to anoite Seven out of the Eight Engineering colleges in the state has Dr. V. P. Kulkarni bos toeldus ent ni tre ent lo etata ent a IEEE Student Branches By the end of the year, it is hoped that princelory Educational Activities in another the eighth one will also join the lot. more co-ordinated efforts towards further advancement nichus. A. There are two Society Chapters under the section. Membership Development dguq .W nost chapter vasudevahot monor to g at a computer Society Chapter IEEE to inaugurate this important Seminar. IEEE to inaugurate this important Seminar. IEEE to inaugurate this important Seminar. IEEE to inaugurate this industrial Seminar. IEEE to inaugurate this industrial Seminar. IEEE The tempo could be maintained during this year also. So far 26 nos of technical talks were organised. At present, the section has a strenght of 642 members in over 13 redmem 642 members. I see and presently with IBM Watson Research Chairman Cha Chairman Executive Committee for their whole hearted support. E. E. Rajakumar A. G. HAREENDRALAL The worldystation of problems, made as well as those imposed by vagaries of nature. Shibu Philip engineering community to play a key-role in the society, more than ever before. Innovative solutions based on sound engineering principles to Person Defectsold, conventional There are many, who would be thinking that a product that is "99.9", free of defects" is more than adequate, for all pratical purposes! Hold on! The following statistics, as applied to American life. presents a totally different and dismal picture. si sint messalemos ed ton bluods ew ylsuoivdo open and help our brethren. There is an urgent need for each member of the source of this responsibility and play their individual roles effectively—lest the society will not accept and allow - Eighteen airplanes would crash in America everyday 3 3 3 1 exil seibcd to esnetaixe edit The postal service would loose 17,660 pieces of mail everyhour as at 880 medmevold More than 3,700 prescriptions would be filled incorrectly everyday and political and 3,100 prescriptions would be filled incorrectly everyday. Ten newbron babies would be dropped during delivery everyday Financial Institutions would deduct 24.8 million US \$ from wrong accounts every hour Surgeons would perform 500 incorrect operations every week. Suddenly, striving for zero defects starts to make a lot of sense, isn't it ?

Courtesy: N. T. Nair 88' VOV SS

I E E E Kerala Section

Technical Programmes During 1989

Engineer's, Inc. Kerala Section. Venue : Thycasido Tivandrum-695 014 Date Invited Speakers 30th Nov 1989 10-1-89 Modern Trends in Design and Planning of Meenakshi Sundaram & Sebastian V Kurien ambaM tappolo Electrical Distribution System & Energy W normal TO Control Centres M. M. J. 10 .E President | EEEE Advanced Structural Materials for 18-1-89 .Glolepn Dr. Zahir Bashir, Bristol University, UK. Polymers nendendar mr. H. J. 10 BARC Bombay 19-1-89 A Strategy for Power Cut 9 Prof R. V. G. Menon, Director, ANERT Multi Bus Illevobend . D. A. a . 8 3 -1- 19 Mr. Sinil, Microelectronics 9. Dr. S Harigovindan, VSSC Composites: Patential Materials for the Dr. K. G. Sathyanarayana, CSIR, Tvm. 22-2-89 Education Govt. of Kera anutuh 8-3-89 Network of Human Heart Dr. C. C. Kartha, Sreechitra Medical Centre 15-3-89 Optimisation Techniques - Introduction Dr. K, Gomathi, College of Engineering, Tym. Optimisation Techniques - Dynamic 22-3-89 Dr. K. Gomathi 10.30-15.80 hrs 15 Dr. M. Sathyanargnimmargord, Invandrum. Panel Discussion 16.00-17.00 brs Image Compression Technique using inte-29-3-89 R. P. Lalaji, Director. Institute of Computer ractive functional System 17.30 18.00 his noliuO (ypolonhaeTll-n 25-4-89 Business Computing — A Perspective Mr. K. P. P. Nambiar Co-sponsored by: 25-4-89 Man Power: Quality & Availability Inc. 8 (39 Mr. Ruttan K. Datta, D. St.T. Delhi 8 27-4-89 Indigenous Knowhow or, Imported Mr. G. Ramachandran Hind Motors, Madras Technology: Choices for India Government of India. 24-5-89 Computer Aided Engg. and Computer Mr. Celso Alejo, Daisy System Corporation, USA Government of India. Aided Design Electronics Research and Development Center (ER 1DC). 30-5-89 Quality & Consumer Movement Mr. K.G.M. Nair, Consumer Protection Council 7-6-89 Lasers & Applications Dr. Simon George, Dept. of Physics, California State University ISBN 20-6-89 Mr. George Mattathil, Consultant, USA Standardisation at National Level 27-6-89 Mr. P Ribbendranathan, Head, B.S.I.Tri vandrum In Search of Aerospace Excellence Mr. M.S. R. Dev. V.S.S.C. Salara X 7-7-89 10-7-89 Microhydel Projects Prof. Soun Jaranayakam Ib 1. Sc., Bangalore FOCUS—a 4GL, 312) themonived bas you Mr. Ravi Lalvani, NIIT, Bangalore 12 11-7-89 Organisation of SCADA of French Power Mr. Jean Claude Navatte, Electricite de France 12-7-89 Trunal Institute for Medical Sciences and Technology (SCTIMST,) Trivandrum, Parallel Processing & its Effects on 9-8-89 Dr. M. S. T. Namboothiri, Texas University Computer Architecture 25-8-89 Quality System Standards Mr. Reghupathi, Dy. Director, BIS. Madras 8-9-89 Super Computers for Aerospace Dr. S. C. Purohit, VSSC ship fee is U.S. § 15 with 50 % minimum income provision. All members will get PoweRnoitslumiZg Review (monthly) 19-9-89 Telecommunication Development during Mr. U. V. Naik, Chief Gen. Manager Telecom 8 th Plan for Kerala 20-9-89 Cellular Radio G. M., DOT, Delhi 3

LasEM -89 HIGHLIGHTS

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Trivandrum.

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Thursday, 30th N	lov 1989		ed Speakers	as of 25 tectual	cal tolks awar
17.45 hrs	Inaugural Address	1001.9	Dr. Kanthi Mody, Jaslo	ok Hospital, Bo	mbay
	Dr. Emerson W. Pugh		Dr. B. Krishna Rau, G		st. Madras.
	President, IEEE	3.	Dr. L. M. Kukrjea, BAF	C, Bombay.	
18.30 hrs.	Keynote address	4.	Dr. I S. N. Murthy, I.	I. Sc., Bangalo	ore: e8-1-81
Iristol University, UK.	Dr. U. K. Chatterjee,	5.	Dr. T. Rimichandran,	SCTIMST, Triv	andrum.
	BARC Bombay	6.	Dr. K. Ravimandalam,	SCTIMST, Triv	andrum.
Friday 1st Dece	mber 1989 9 10 9	7.	Prof B. Venkataraman	, TIFR, Bomba	y. 68-1-61
09.00 hrs	Registration	8.	Dr. A.G. Dnedovets,	USSR	3 -1- 9
actionics	Technical Sessions	9.	Dr. S. Harigovindan,		drum.
09. 00-12.30 hrs	Lasers in medicine I	10.	Dr. R. Jayaraman, Dir		
13 33-17.00 hrs	Lasers and Laser		Education Govt. of Ke		
1003-17,001	Instrumentation	11.	Dr. A. M. Lashin, US		
Saturday, 2nd D		12	Dr. U. Nandy, CAT,		
08.30-10.00 hrs	Lasers in medicine II	13.			
10.30-15.30 hrs	Lasers in Engineering	14.			
16.00-17.00 hrs	Panel Discussion:	15	Dr. M. Sathyanarayna		ndrum.
10.00-17.00 ms	Laser Application	16.	Dr. S. L. Selish hev,		
or histitute of Computer		17.	Prof R. K. Thareja, II		
	Valedictory function	Arment No.	maley & Innolithin	, actros.	
			Computing - A Page		
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	of India (CSI), Trivandrun		ter.		27-4-89
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Join Namer Engineering Society Strang American

Power engineering is undergoing rapid transformation with increasing applications of computers and micro-processors. To keep abreast of these developments become a member of the Power Engineering Society. The numbership fee is U S \$ 15 with 50 % minimum income provision. All members will get Power Engineering Review (monthly) and computer Applications in Power (Quarterly).

Government of Kerala.

Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST,)