## **TELANGANA STATE SCIENCE CONGRESS (TSSC-2018)**

22<sup>nd</sup> -24<sup>th</sup>, December, 2018

## **PROGRAMME**

(Legend to the acronyms is given at the last page)

	DAY 1 : 22-12-2018								
08.30	-10.00	REGISTRATION AUD							
10.00	) – 11.30		INAUGURAL FUNCTION						
11.30	) – 11.45		HIGH TEA						
				I.V. Ramana Rao, Director, NIT Warangal					
				. K. V. Jayakumar, Dean, IRAA, NIT Warangal					
	NC		45.45	Distinguished Lecture 1					
13.15	9810	11.45	- 12.15	Joyful Story of Doing Useful Science Dr. T. Ramasami, Former Secretary, DST		DBRALC			
	PLENARY SESSION			Distinguished Lecture 2					
- 5	RY	12.15	- 12.45	On the Ramanujan-Selberg Conjecture					
11.45	A N			Prof. T.N. Venkata Ramana, TIFR, Mumbai					
1	PLE			Distinguished Lecture 3					
	_	12.45 – 13.15		Science & Technology for an All Round and Sustainable Development of the Telangana State					
				Dr. Prahlada Ramarao, Former Director, DRDL					
13.15	5 <b>– 14.1</b> 5		LUNCH PA						
14.15	14.15 – 15.50 THEMATIC PARALLEL SESSIONS				SHC				
	) AL		_	Prof. P. Venugopal Reddy, Vice-President, TAS		_			
	ANI FIC/		Co-Chairpers	on: Prof. R. L. N. Sai Prasad, NIT Warangal		IAN			
	AL, MA <sup>-</sup> NCE			Invited Lecture: Innovations in Some of the Indigenous Sensor Technologies		IANU. HALL			
	YSICAL AI THEMATI SCIENCES	14.30 – 15.00		Dr. N. R. Munirathnam, Director General, C-MET		RAMANUJAN HALL			
	PHYSICAL AND MATHEMATICAL SCIENCES					RAI			
			15.00 – 15.50	` ,					
20	⊗ _		=	Sri R. N. Jayaraj, Former Chairman, NFC, Hyderabad					
15.	NG OG)		Co-Chairpers	on: Prof. T.D. Gunneswara Rao, NIT Warangal		ILL.			
14.15 to 15.50	ENGINEERING & TECHNOLOGY			Invited Lecture:  Nuclear Fuel Complex - Vision 2028: (Challenges, Expertise & In	novative	BOSE HALL			
15			14.30 – 15.00	Technologies	novative	<b>JSE</b>			
14.	NG TEC			Dr. Dinesh Srivastava, Chief Executive, NFC, Hyderabad		B			
	3		15.00 – 15.50	,					
			•	n: Dr. R.B. N. Prasad, IICT, Hyderabad					
	CHEMICAL SCIENCES	•		rson: Prof. Ms. P. V. Srilakshmi, NIT Warangal		RAMAN HALI			
	CHEMICAL		14.30 – 15.00	Invited Lecture:  Innovative Process Technologies for Commercial Drugs		AN			
	CHE			Dr. A. Veera Reddy, Suvenlife Sciences, Hyderabad		<b>A</b> M.			
			15.00 – 15.50			8			
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			DAY 1 Contd			
	. Y _	Chairperson: Pro	of. P. Appa Rao, Vice Chancellor, Univ. Hyderabad			
	LIFESCIENCES & AGRICULTURAL SCIENCES		Dr. Onkara Perumal, NIT Warangal	НОМІ ВНАВНА		
			Invited Lecture:			
	ESCIENCES RICULTUR SCIENCES	14.30 – 15.00	Fungal Diversity in Sustainable Development of Telangana State:	I BH,		
	ESC RIC SCI	14.50 15.00	Opportunities and Challenges	ੋਂ ⊤		
	AG		Prof. A. K. Pandey, Chairman, MPPURC	오		
		15.00 – 15.50	Oral Presentations: LSAS-O-1 to LSAS-O-4 (4 x 10 min)			
	MEDICAL,		of. G. Achaiah, Kakatiya Univ, Warangal Prof. A. Sarath Babu, NIT Warangal	£		
	HEALTH &	Co-Chairperson:	· · · · · · · · · · · · · · · · · · ·	CHANDRASEKH AR HALL		
	PHARMA-		Invited Lecture:	ANDRASI AR HALL		
	CEUTICAL	14.30 – 15.00	Indian Pharmaceutical Industry Achievements and Expectations Prof. C.K. Kokate, Former Vice Chancellor, KU, Warangal	N N		
	SCIENCES		Prof. C.K. Kokate, Former vice Chancellor, Ko, Warangar	Η Υ		
		15.00 – 15.50	Oral Presentations: MHPS-O-1 to MHPS-O-4 (4 x 10 min)	0		
15.50	EARTH, OCEA		n: Prof. K.V. Jayakumar, Dean, IRAA, NIT Warangal	_		
15	ATMOSPHER	C Co-Chairp	erson: Dr. P. Hari Prasad Reddy, NIT Warangal	N N		
14.15 to	AND	14.30 15	Invited Lecture:	KHURANA HALL		
1.1	ENVIRONMENT	TAL 14.30 - 15.	Ozone, Ozone Everywhere Prof. S. B. Jonnalagadda, Univ.KwaZulu-Natal, South Africa	₹ 		
17	SCIENCES	15.00 – 15.		×		
		15.00 - 15.	SPECIAL THEME SESSION			
	INTERACTION	Coordinator: Pro	f. A. Ramachandraiah, NIT Warangal	()		
	OF STUDENTS	Coordinator. 110	Dr. Ch. Mohan Rao, Former Director, CCMB, Hyderabad	ALC		
	WITH		Prof. K. Byrappa, Former Vice Chancellor, Mangalore University	DBRALC		
	SCIENTISTS	Speakers	Prof. B. V. Appa Rao, Emeritus Research Fellow, TLC, NIT Warangal			
			Prof. D. Prasad Rao, Chairman, Indo-US Suer Speciality Hospital, Hyd'bad			
15.50	- 16.05	5.50 – 16.05 TEA BREAK				
4.0			I LA DILLAN	PANDAL		
16.05	5 – 17.35		THEMATIC PARALLEL SESSIONS – II	SHC		
16.05		<b>Chairperson:</b> Pro				
16.05		_	THEMATIC PARALLEL SESSIONS – II	SHC		
16.03		_	THEMATIC PARALLEL SESSIONS – II  of. T. Amarnath, Univ. Hyderabad  Prof. P. Malla Reddy, KU, Warangal  Invited Lecture:	SHC		
16.03		Co-Chairperson:	THEMATIC PARALLEL SESSIONS – II  of. T. Amarnath, Univ. Hyderabad  Prof. P. Malla Reddy, KU, Warangal  Invited Lecture:  Divergence free vector fields in viscous incompressible flows with special	SHC		
16.03		Co-Chairperson:	THEMATIC PARALLEL SESSIONS – II  of. T. Amarnath, Univ. Hyderabad  Prof. P. Malla Reddy, KU, Warangal  Invited Lecture:  Divergence free vector fields in viscous incompressible flows with special reference to Oseen equations	SHC		
16.05		Co-Chairperson: 16.15 – 16.45	THEMATIC PARALLEL SESSIONS – II  of. T. Amarnath, Univ. Hyderabad  Prof. P. Malla Reddy, KU, Warangal  Invited Lecture:  Divergence free vector fields in viscous incompressible flows with special reference to Oseen equations  Prof. B. Sri Padmavathi, Univ. Hyderabad	SHC		
16.05	ND CAL	Co-Chairperson: 16.15 – 16.45 16.45 – 17.35	THEMATIC PARALLEL SESSIONS – II  of. T. Amarnath, Univ. Hyderabad  Prof. P. Malla Reddy, KU, Warangal  Invited Lecture:  Divergence free vector fields in viscous incompressible flows with special reference to Oseen equations  Prof. B. Sri Padmavathi, Univ. Hyderabad  Oral Presentations: PMS-O-5 to PMS-O-8 (4 x 10 min)	SHC		
16.05	PHYSICAL AND MATHEMATICAL SCIENCES	Co-Chairperson: 16.15 – 16.45 16.45 – 17.35 Chairperson: Pro	THEMATIC PARALLEL SESSIONS – II  of. T. Amarnath, Univ. Hyderabad  Prof. P. Malla Reddy, KU, Warangal  Invited Lecture:  Divergence free vector fields in viscous incompressible flows with special reference to Oseen equations  Prof. B. Sri Padmavathi, Univ. Hyderabad  Oral Presentations: PMS-O-5 to PMS-O-8 (4 x 10 min)  of. M. Sydulu, NIT Warangal	RAMANUJAN HALL DE		
16.05	PHYSICAL AND MATHEMATICAL SCIENCES	Co-Chairperson: 16.15 – 16.45  16.45 – 17.35 Chairperson: Pro	THEMATIC PARALLEL SESSIONS – II  of. T. Amarnath, Univ. Hyderabad  Prof. P. Malla Reddy, KU, Warangal  Invited Lecture:  Divergence free vector fields in viscous incompressible flows with special reference to Oseen equations  Prof. B. Sri Padmavathi, Univ. Hyderabad  Oral Presentations: PMS-O-5 to PMS-O-8 (4 x 10 min)  of. M. Sydulu, NIT Warangal  Prof. K. Anand Kishore, NIT Warangal	RAMANUJAN HALL DE		
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17.35	PHYSICAL AND MATHEMATICAL SCIENCES	Co-Chairperson: 16.15 – 16.45  16.45 – 17.35  Chairperson: Pro Co-Chairperson: 16.15 – 16.45	THEMATIC PARALLEL SESSIONS – II  of. T. Amarnath, Univ. Hyderabad Prof. P. Malla Reddy, KU, Warangal  Invited Lecture: Divergence free vector fields in viscous incompressible flows with special reference to Oseen equations Prof. B. Sri Padmavathi, Univ. Hyderabad  Oral Presentations: PMS-O-5 to PMS-O-8 (4 x 10 min)  of. M. Sydulu, NIT Warangal Prof. K. Anand Kishore, NIT Warangal  Invited Lecture: Mathematical Modelling and Simulation in Chemical & Bio-Chemical Engineering Prof. M. Chidambaram, Emeritus Professor, NIT Warangal  Oral Presentations: ET-O-5 to ET-O-8 (4 x 10 min)	RAMANUJAN HALL DE		
	ENGINEERING PHYSICAL AND AND MATHEMATICAL TECHNOLOGY SCIENCES	Co-Chairperson:  16.15 – 16.45  16.45 – 17.35  Chairperson: Pro Co-Chairperson: 16.15 – 16.45  16.45 – 17.35  Chairperson: Pro Chairperson: Pro	THEMATIC PARALLEL SESSIONS – II  of. T. Amarnath, Univ. Hyderabad  Prof. P. Malla Reddy, KU, Warangal  Invited Lecture:  Divergence free vector fields in viscous incompressible flows with special reference to Oseen equations  Prof. B. Sri Padmavathi, Univ. Hyderabad  Oral Presentations: PMS-O-5 to PMS-O-8 (4 x 10 min)  of. M. Sydulu, NIT Warangal  Prof. K. Anand Kishore, NIT Warangal  Invited Lecture:  Mathematical Modelling and Simulation in Chemical & Bio-Chemical Engineering  Prof. M. Chidambaram, Emeritus Professor, NIT Warangal  Oral Presentations: ET-O-5 to ET-O-8 (4 x 10 min)  of. Ch. Sanjeeva Reddy, Vice-President, TAS	BOSE HALL RAMANUJAN HALL DE		
17.35	ENGINEERING PHYSICAL AND AND MATHEMATICAL TECHNOLOGY SCIENCES	Co-Chairperson:  16.15 – 16.45  16.45 – 17.35  Chairperson:  16.15 – 16.45  16.45 – 17.35  Chairperson: Pro Co-Chairperson: Pro Co-Chairperson: Pro Co-Chairperson:	THEMATIC PARALLEL SESSIONS — II  of. T. Amarnath, Univ. Hyderabad Prof. P. Malla Reddy, KU, Warangal  Invited Lecture:  Divergence free vector fields in viscous incompressible flows with special reference to Oseen equations Prof. B. Sri Padmavathi, Univ. Hyderabad  Oral Presentations: PMS-O-5 to PMS-O-8 (4 x 10 min)  of. M. Sydulu, NIT Warangal Prof. K. Anand Kishore, NIT Warangal  Invited Lecture:  Mathematical Modelling and Simulation in Chemical & Bio-Chemical Engineering Prof. M. Chidambaram, Emeritus Professor, NIT Warangal  Oral Presentations: ET-O-5 to ET-O-8 (4 x 10 min)  of. Ch. Sanjeeva Reddy, Vice-President, TAS Dr. Vishnu Shanker, NIT Warangal	BOSE HALL RAMANUJAN HALL DE		
17.35	ENGINEERING PHYSICAL AND AND MATHEMATICAL TECHNOLOGY SCIENCES	Co-Chairperson:  16.15 – 16.45  16.45 – 17.35  Chairperson: Pro Co-Chairperson: 16.15 – 16.45  16.45 – 17.35  Chairperson: Pro Chairperson: Pro	THEMATIC PARALLEL SESSIONS – II  of. T. Amarnath, Univ. Hyderabad Prof. P. Malla Reddy, KU, Warangal  Invited Lecture:  Divergence free vector fields in viscous incompressible flows with special reference to Oseen equations Prof. B. Sri Padmavathi, Univ. Hyderabad  Oral Presentations: PMS-O-5 to PMS-O-8 (4 x 10 min)  of. M. Sydulu, NIT Warangal Prof. K. Anand Kishore, NIT Warangal  Invited Lecture:  Mathematical Modelling and Simulation in Chemical & Bio-Chemical Engineering Prof. M. Chidambaram, Emeritus Professor, NIT Warangal  Oral Presentations: ET-O-5 to ET-O-8 (4 x 10 min)  of. Ch. Sanjeeva Reddy, Vice-President, TAS Dr. Vishnu Shanker, NIT Warangal  Invited Lecture:	BOSE HALL RAMANUJAN HALL DE		
17.35	ENGINEERING PHYSICAL AND AND MATHEMATICAL TECHNOLOGY SCIENCES	Co-Chairperson:  16.15 – 16.45  16.45 – 17.35  Chairperson:  16.15 – 16.45  16.45 – 17.35  Chairperson: Pro Co-Chairperson: Pro Co-Chairperson: Pro Co-Chairperson:	THEMATIC PARALLEL SESSIONS — II  of. T. Amarnath, Univ. Hyderabad Prof. P. Malla Reddy, KU, Warangal  Invited Lecture:  Divergence free vector fields in viscous incompressible flows with special reference to Oseen equations Prof. B. Sri Padmavathi, Univ. Hyderabad  Oral Presentations: PMS-O-5 to PMS-O-8 (4 x 10 min)  of. M. Sydulu, NIT Warangal Prof. K. Anand Kishore, NIT Warangal  Invited Lecture:  Mathematical Modelling and Simulation in Chemical & Bio-Chemical Engineering Prof. M. Chidambaram, Emeritus Professor, NIT Warangal  Oral Presentations: ET-O-5 to ET-O-8 (4 x 10 min)  of. Ch. Sanjeeva Reddy, Vice-President, TAS Dr. Vishnu Shanker, NIT Warangal  Invited Lecture: Use of Light for Treatment of Cancer: Challenges & Opportunities	BOSE HALL RAMANUJAN HALL DE		
17.35	PHYSICAL AND MATHEMATICAL SCIENCES	Co-Chairperson: 16.15 – 16.45  16.45 – 17.35  Chairperson: 16.15 – 16.45  16.45 – 17.35  Chairperson: Pro Co-Chairperson: Pro Co-Chairperson: Pro Co-Chairperson: Pro Co-Chairperson:	THEMATIC PARALLEL SESSIONS — II  of. T. Amarnath, Univ. Hyderabad Prof. P. Malla Reddy, KU, Warangal  Invited Lecture: Divergence free vector fields in viscous incompressible flows with special reference to Oseen equations Prof. B. Sri Padmavathi, Univ. Hyderabad  Oral Presentations: PMS-O-5 to PMS-O-8 (4 x 10 min)  of. M. Sydulu, NIT Warangal Prof. K. Anand Kishore, NIT Warangal  Invited Lecture: Mathematical Modelling and Simulation in Chemical & Bio-Chemical Engineering Prof. M. Chidambaram, Emeritus Professor, NIT Warangal  Oral Presentations: ET-O-5 to ET-O-8 (4 x 10 min)  of. Ch. Sanjeeva Reddy, Vice-President, TAS Dr. Vishnu Shanker, NIT Warangal  Invited Lecture: Use of Light for Treatment of Cancer: Challenges & Opportunities Dr. D. Ramaiah, Former Director, RRL, Jorhat	RAMANUJAN HALL DE		
17.35	CHEMICAL ENGINEERING PHYSICAL AND SCIENCES AND MATHEMATICAL TECHNOLOGY SCIENCES	Co-Chairperson: 16.15 – 16.45  16.45 – 17.35  Chairperson: Pro Co-Chairperson: 16.15 – 16.45  Chairperson: Pro Co-Chairperson: 16.45 – 17.35  Chairperson: Pro Co-Chairperson: 16.15 – 16.45	THEMATIC PARALLEL SESSIONS — II  of. T. Amarnath, Univ. Hyderabad Prof. P. Malla Reddy, KU, Warangal  Invited Lecture: Divergence free vector fields in viscous incompressible flows with special reference to Oseen equations Prof. B. Sri Padmavathi, Univ. Hyderabad  Oral Presentations: PMS-O-5 to PMS-O-8 (4 x 10 min)  of. M. Sydulu, NIT Warangal Prof. K. Anand Kishore, NIT Warangal  Invited Lecture: Mathematical Modelling and Simulation in Chemical & Bio-Chemical Engineering Prof. M. Chidambaram, Emeritus Professor, NIT Warangal  Oral Presentations: ET-O-5 to ET-O-8 (4 x 10 min)  of. Ch. Sanjeeva Reddy, Vice-President, TAS Dr. Vishnu Shanker, NIT Warangal  Invited Lecture: Use of Light for Treatment of Cancer: Challenges & Opportunities Dr. D. Ramaiah, Former Director, RRL, Jorhat  Oral Presentations: : CS-O-5 to CS-O-8 (4 x 10 min)	BOSE HALL RAMANUJAN HALL DE		
17.35	CHEMICAL ENGINEERING PHYSICAL AND SCIENCES AND MATHEMATICAL TECHNOLOGY SCIENCES	Co-Chairperson:  16.15 – 16.45  16.45 – 17.35  Chairperson: Pro Co-Chairperson: Pro	THEMATIC PARALLEL SESSIONS — II  of. T. Amarnath, Univ. Hyderabad Prof. P. Malla Reddy, KU, Warangal  Invited Lecture:  Divergence free vector fields in viscous incompressible flows with special reference to Oseen equations Prof. B. Sri Padmavathi, Univ. Hyderabad  Oral Presentations: PMS-O-5 to PMS-O-8 (4 x 10 min)  of. M. Sydulu, NIT Warangal Prof. K. Anand Kishore, NIT Warangal  Invited Lecture:  Mathematical Modelling and Simulation in Chemical & Bio-Chemical Engineering Prof. M. Chidambaram, Emeritus Professor, NIT Warangal  Oral Presentations: ET-O-5 to ET-O-8 (4 x 10 min)  of. Ch. Sanjeeva Reddy, Vice-President, TAS Dr. Vishnu Shanker, NIT Warangal  Invited Lecture:  Use of Light for Treatment of Cancer: Challenges & Opportunities Dr. D. Ramaiah, Former Director, RRL, Jorhat  Oral Presentations: : CS-O-5 to CS-O-8 (4 x 10 min)  of. S. M. Reddy, Editor, Publications, TAS	RAMAN HALL BOSE HALL RAMANUJAN ES HALL BOSE HA		
17.35	CHEMICAL ENGINEERING PHYSICAL AND SCIENCES AND MATHEMATICAL TECHNOLOGY SCIENCES	16.45 – 17.35 Chairperson: Pro Co-Chairperson: Pro	THEMATIC PARALLEL SESSIONS — II  of. T. Amarnath, Univ. Hyderabad  Prof. P. Malla Reddy, KU, Warangal  Invited Lecture:  Divergence free vector fields in viscous incompressible flows with special reference to Oseen equations  Prof. B. Sri Padmavathi, Univ. Hyderabad  Oral Presentations: PMS-O-5 to PMS-O-8 (4 x 10 min)  of. M. Sydulu, NIT Warangal  Prof. K. Anand Kishore, NIT Warangal  Invited Lecture:  Mathematical Modelling and Simulation in Chemical & Bio-Chemical Engineering  Prof. M. Chidambaram, Emeritus Professor, NIT Warangal  Oral Presentations: ET-O-5 to ET-O-8 (4 x 10 min)  of. Ch. Sanjeeva Reddy, Vice-President, TAS  Dr. Vishnu Shanker, NIT Warangal  Invited Lecture:  Use of Light for Treatment of Cancer: Challenges & Opportunities  Dr. D. Ramaiah, Former Director, RRL, Jorhat  Oral Presentations:: CS-O-5 to CS-O-8 (4 x 10 min)  of. S. M. Reddy, Editor, Publications, TAS  Dr. Ms. G. Shamitha, KU, Warangal	RAMAN HALL BOSE HALL RAMANUJAN ES HALL BOSE HA		
17.35	CHEMICAL ENGINEERING PHYSICAL AND SCIENCES AND MATHEMATICAL TECHNOLOGY SCIENCES	Co-Chairperson:  16.15 – 16.45  16.45 – 17.35  Chairperson: Pro Co-Chairperson: Pro	THEMATIC PARALLEL SESSIONS — II  of. T. Amarnath, Univ. Hyderabad  Prof. P. Malla Reddy, KU, Warangal  Invited Lecture:  Divergence free vector fields in viscous incompressible flows with special reference to Oseen equations  Prof. B. Sri Padmavathi, Univ. Hyderabad  Oral Presentations: PMS-O-5 to PMS-O-8 (4 x 10 min)  of. M. Sydulu, NIT Warangal  Prof. K. Anand Kishore, NIT Warangal  Invited Lecture:  Mathematical Modelling and Simulation in Chemical & Bio-Chemical Engineering  Prof. M. Chidambaram, Emeritus Professor, NIT Warangal  Oral Presentations: ET-O-5 to ET-O-8 (4 x 10 min)  of. Ch. Sanjeeva Reddy, Vice-President, TAS  Dr. Vishnu Shanker, NIT Warangal  Invited Lecture:  Use of Light for Treatment of Cancer: Challenges & Opportunities  Dr. D. Ramaiah, Former Director, RRL, Jorhat  Oral Presentations:: CS-O-5 to CS-O-8 (4 x 10 min)  of. S. M. Reddy, Editor, Publications, TAS  Dr. Ms. G. Shamitha, KU, Warangal  Invited Lecture: Biotechnological production of chitooligosaccharides for plant	RAMAN HALL BOSE HALL RAMANUJAN ES HALL BOSE HA		
17.35	CHEMICAL ENGINEERING PHYSICAL AND SCIENCES AND MATHEMATICAL TECHNOLOGY SCIENCES	16.45 – 17.35 Chairperson: Pro Co-Chairperson: Pro	THEMATIC PARALLEL SESSIONS — II  of. T. Amarnath, Univ. Hyderabad  Prof. P. Malla Reddy, KU, Warangal  Invited Lecture:  Divergence free vector fields in viscous incompressible flows with special reference to Oseen equations  Prof. B. Sri Padmavathi, Univ. Hyderabad  Oral Presentations: PMS-O-5 to PMS-O-8 (4 x 10 min)  of. M. Sydulu, NIT Warangal  Prof. K. Anand Kishore, NIT Warangal  Invited Lecture:  Mathematical Modelling and Simulation in Chemical & Bio-Chemical Engineering  Prof. M. Chidambaram, Emeritus Professor, NIT Warangal  Oral Presentations: ET-O-5 to ET-O-8 (4 x 10 min)  of. Ch. Sanjeeva Reddy, Vice-President, TAS  Dr. Vishnu Shanker, NIT Warangal  Invited Lecture:  Use of Light for Treatment of Cancer: Challenges & Opportunities  Dr. D. Ramaiah, Former Director, RRL, Jorhat  Oral Presentations:: CS-O-5 to CS-O-8 (4 x 10 min)  of. S. M. Reddy, Editor, Publications, TAS  Dr. Ms. G. Shamitha, KU, Warangal	RAMAN HALL BOSE HALL RAMANUJAN A HALL E		

				Day 1 Contd				
	MEDICA	L,	Chairperson: Prof. C. K. Kokate, Former Vice Chancellor, KU, Warangal					
	PHARMA- CEUTICAL SCIENCES		Co-Chairperson: Dr. P. Srinivasa Rao, NIT Warangal					
			16.15 – 16.45	Invited Lecture:		R/ HA		
				Science and Technology for Enhancing Quality of Life		IANDRASI HAR HALL		
				Dr. S. N. Hegde, Former Vice Chancellor, Mysore University		CHANDRASEK HAR HALL		
			16.45 – 17.35	Oral Presentations: MHPS-O-5 to MHPS-O-8 (4 x 10 min)		0		
		بِ		f. S. B. Jonnalagadda, Univ.KwaZulu-Natal, SA				
35		-	Co-Chairperson:	Prof. M. Chandrasekhar, NIT Warangal		ALI		
17.3		SCIENCES	16.15 - 16.45	Invited Lecture:		H		
1	H, OC DSPH AND	<u> </u>		Waste Biorefinery: Renewable Chemicals and Fuels in Closed	Loop	Š		
05	F, O	5 8∣		Integrated Format		RA		
16.05	EARTH, OCEAN, ATMOSPHERIC AND	ENVIRONMENTAL SCIENCES		Dr. S. Venkata Mohan, IICT, Hyderabad		KHURANA HALL		
	3 4 5		16.45 – 17.35	Oral Presentations: EOAES-O-5 to EOAES-O-8 (4 x 10 min)		¥		
				SPECIAL THEME SESSION				
	INTERACTION OF STUDENTS WITH SCIENTISTS		Coordinator: Prof	f. A. Ramachandraiah, NIT Warangal		O.		
				Dr. Ch. Mohan Rao, Former Director, CCMB, Hyderabad		DBRALC		
			Speakers	Prof. K. Byrappa, Former Vice Chancellor, Mangalore University		18 E		
			Speakers	Prof. B. V. Appa Rao, Emeritus Research Fellow, TLC, NIT Warangal		۵		
				Prof. D. Prasad Rao, Chairman, Indo-US Suer Speciality Hospital, Hyd'ba	ad			
17.30	17.30			GENERAL BODY MEETING, TAS	ВС	OSE HALL		
17.30	17.30-19.00		POSTER PRESENTATION (PMS, ET and CS)		SHC			
19.00	-20.30		CULTURAL PROGRAMME			DITORIUM		
20.30	20.30		DINNER			PANDAL		

			DAY 2: 23-12-2018	
08.00	D8.00-09.00 BREAKFAST			
09.00	09.00-11.00 SUB-THEME PARALLEL SESSIONS-I			
	SMART CITIES	=	of. C. S. R. K. Prasad, NIT Warangal Prof. R. B. V. Subramanyam, NIT Warangal  Speakers: Dr. B. Janardhan Reddy, IAS, Commissioner, HMDA, Hyderabad Sri. Jeyash Ranjan, IAS, Principal Secretary, IT, GoT Discussions	DBRALC
09.00-11.00	RENEWABLE ENERGY SOURCES	· ·	of. P. Anand Raj, Dean, P & D, NIT Warangal Prof. S. Srinivasa Rao, NIT Warangal Invited Lecutre1: Renewable Energy Sources Prof. K. Ramanuja Chary: Rowan University, USA Invited Lecture 2: Metal Fluorides for Electrochemical Energy Storage Prof. M. Anji Reddy, Germany Discussions	BOSE HALL
11.00	11.00-11.15 TEA BREAK		SHC	

			Day 2 Contd	
11.1	5-13.00		SUB-THEME PARALLEL SESSIONS-II	
11.15 – 13.00	SCIENCE IN THE SERVICE OF SOCIETY	Co-Chairperson: Speakers: Prof. D. Balasubra	Ch. Mohan Rao, Former Director, CCMB Prof. B. V. Appa Rao, NIT Warangal amanian, former Director, CCMB, Hyderabad swaran, Director, Vigyan Prasar, DST, Gol	DBRALC
	INCLUSIVE ROLE OF WOMEN IN SCIENCE AND TECHNOLOGY	Chairperson: Dr. Ms. K. Padma, NIT Warangal Co-Chairperson: Dr. Ms. H. P. Rani, NIT Warangal Speakers: Women In Science – is it any different? Dr. Saroja Saibaba, Scientific Officer, Kalpakkam A Socio Cultural Historical Perspective of Women Power in India. Dr. J. Kedareswari, Curator, Salarjung Museum, Hyderabad		
1	3.00-14.00		LUNCH	PANDAL
1	4.00-15.30		THEMATIC PARALLEL SESSIONS – III	SHC
	PHYSICAL AND MATHEMATICAL SCIENCES	=	f. M. N. Chary, OU  Prof. L. R. G. Reddy, NIT Warangal  Invited Lectures  Physics and Applications of Functional Materials and Nanostructures  Prof. M. S. Ramachander Rao, IIT Madras  Severe Thunderstorms over India and special reference to Telangana  Prof. K. Krishna Reddy, YVU, Kadapa  Oral Presentations: PMS-O-9 and PMS-O-10 (2 x 10)	RAMANUJAN HALL
	ENGINEERING AND TECHNOLOGY		G. Madhusudhan Reddy, TAS  Prof. P. Bangaru Babu, NIT Warangal  Invited Lecture:  Heisenberg Principle and Sustainable Development in Geotechnical  Engineering Practice  Prof. M. R. Madhav, IIT, Kanpur (Retd)  Oral Presentations: ET-O-9 to ET-O-13 (5 x 10)	BOSE HALL
14.00 – 15.30	CHEMICAL	Chairperson: Pro	Invited Lecture: Indigenizing Material Technologies (From laboratory to the market) Dr. T. N. Rao, ARCI, Hyderabad Oral Presentations:: CS-O-9 to CS-O-12 (4 x 10)	RAMAN HALL
	LIFESCIENCES AND AGRICULTURAL SCIENCES	Chairperson: Pro	f. M. Singaracharya, Kakatiya Univ, Warangal (Retd) Prof. E. Venkata Ratnam, NIT Warangal Invited Lecture: Science and Technology for Doubling Farmers Income in Telangana State through Integrated Farming Approach Prof. M. P. Thakur, IGKV, Raipur  Oral Presentations: LSAS-O-9 to LSAS-O-12 (4 x 10)	HOMI BHABHA HALL
	MEDICAL, HEALTH AND PHARMACEUTICAL SCIENCES	Chairperson: Pro	f. K. Jeevan Rao, EC Member, TAS  Dr. Prakash Saudagar, NIT Warangal  Invited Lecture:  Involvement of sorbitol-mediated signaling mechanisms in neuronal and retinal degeneration associated with metabolic syndrome  Dr. G. Bhanuprakash Reddy, NIN, Hyderabad  Oral Presentations: MHPS-O-9 to MHPS-O-12 (4 x 10)	CHANDRASEKHAR HALL

	Day 2 Contd								
	EARTH, C	CEAN							
15.30	ATMOSPHERIC AND ENVIRONMENTA				n: Dr. K. Venkata Reddy, NIT, Warangal	_ 4			
15					Invited Lecture:	KHURANA			
0			TAL	14.10-14.40	Geo-Technical Splendour of the Kakathiyas	IURAL			
14.00		SCIENCES			Prof. M. Pandu Ranga Rao, NIT WARANGAL (Retd)	¥ _			
1	H SCIENCES			14.40-15.30	Oral Presentations: EOAES-O-9 to EOAES-O-12 (4 x 10)				
15.	30-15.45			SHC					
15.	45-17.15				THEMATIC PARALLEL SESSIONS – IV				
	!			hairperson: Prof. Y. N. Reddy, NIT, Warangal					
	8 8 °		Co-Ch	Co-Chairperson: Prof. D. Srinivasacharya, NIT Warangal					
	YSICAL AI THEMATI SCIENCES		15.55	-16.25	Invited Lecture	, j			
					"On Absolutely Norm Attaining Operators"	1ANU HALL			
	PHYSICAL AND AATHEMATICA SCIENCES				Prof. G. Ramesh, IIT, Hyderabad	RAMANUJAN			
	PHYSICAL AND MATHEMATICAL SCIENCES		16.25	-17.15	Oral Presentations: PMS-O-11 to PMS-O-14 (4 x 10)	<b>2</b>			
	(7 <b>&gt;</b>		Chair	person: Prof.	P. Ravi Kumar, Member Secretary, TSCOST, Telangana				
	ž 5			-	f. S. Srinivasa Rao, EEE, NIT Warangal	<b>1</b>			
	ENGINEERING AND TECHNOLOGY		15.55	-16.25	Invited Lecture:	BOSE HALL			
	Z & Z				Incremental Sheet Forming: Predictive Capabilities	SE			
	NG ECI	-			Prof. N. Venkata Reddy, IIT, Hyderabad	<u> </u>			
	ш –			-17.15	<b>Oral Presentations: ET-O-14</b> to <b>ET-O-17</b> (4 x 10)				
				person: Prof. [					
	S:	-	<b>Co-Chairperson:</b> Dr <b>15.55-16.25</b>		•	RAMAN HALL			
					Invited Lecture: Electrical Discharge Plasma: An Advanced Oxidation Process the	T			
	CHEMICAL				Mitigation of Air and Water pollutants	₹			
15	A &				Prof. Ch. Subramanyam, IIT, Hyderabad	≥			
17.		-	16	.25-17.15	Oral Presentations: : CS-O-13 to CS-O-16 (4 x 10)	<u>~</u>			
15.45-17.15					. Janardhan Reddy , EC Member, TAS				
5.7	LIFESCIENCES AND AGRICULTURAL SCIENCES		-		K. Narasimhulu, NIT Warangal	МІ ВНАВНА НАІ			
7									
					Transition in Indian Agriculture	II BH			
					(From Green Revolution to Gene Revolution)	■ ₹ <sup>±</sup>			
					Prof. N. Venugopal Rao, ANGRAU, Tirupati (Retd)	HO N			
				.25-17.15	Oral Presentations: LSAS-O-13 to LSAS-O-16 (4 x 10)	-			
	MEDICA	-			Bhanuprakash Reddy, EC Member, TAS S. Srinath, NIT Warangal	F			
	HEALTH A			.55-16.25	Invited Lecture:	SE L			
	PHARMA		13	.55 10.25	The Science of Resuscitation-Best Practices to Improve Survival from	ANDRAS AR HAL			
	CEUTICA	۱L			Cardiac Arrest	A R			
	SCIENCE	S			Dr. R. Srinivas, Cardiologist, Warangal	CHANDRASEKH AR HALL			
			16	.25-17.15	Oral Presentations: MHPS-O-13 to MHPS-O-16 MHPS, O 13-16 (4 x 10)	) 7			
	EARTH,	OCEA	λN,	-	Y. Pydisetty, Dean, Academic, NIT Warangal				
	ATMOSPHER AND ENVIRONMEN SCIENCES		RIC		on: Dr. B. Srinivas, NIT Warangal	KHURANA			
			15.55-16.25		Invited Lecture:	URA			
			ITAL		Relevance of Environmental Flows in Indian Context Prof. K. V. Jayakumar, CED, NIT Warangal	로 크			
						<u> </u>			
17	17.15-117.30			10.23 17.13	TEA BREAK	SHC			
	17.30-19.00			POSTER PRESENTATIONS (LSAS, MHPS and Sub Themes)					
	19.00-20.30			CULTURAL PROGRAM  AU					
	0.30-21.30				DINNER				

	DAY 3: 24-12-2018						
	08.00-09.00		BREAKFAST			PANDAL	
09.30-11.10	PLENARY SESSION-II	PLENARY SESSION-II		br: Dr. S. Chandrasekhar, Director, IICT, Hyderabad erson: Prof. A. Venu Gopal, NIT Warangal  Distinguished Popular Lecture-1 Science for Sustainability: Emerging Challenges and New Opportunities Prof. A.R. Reddy, Former Vice Chancellor, Yogi Vemana Univ., Kadapa  Distinguished Popular Lecture-2 The Role of Nature and Science in Engineering Sustainable Buildings Prof. N.V. Ramana Rao, Director, NIT Warangal		DBRALC	
11.10	0-11.25			TEA BREAK	F	PANDAL	
	5-13.00			SPECIAL THEME PARALLEL SESSIONS-III		SHC	
11.25-13.00	STRENGTHENING SCIENCE EDUCATION: ROO OF TEACHERS		Co-Chairg Speakers  G Chair	on: Prof. M. Vittal, OU (Retd) person: Dr. A. Veereshbabu, NIT Warangal Dr. S. Chandrasekhar, Director, IICT, Hyderabad Prof. M. Chidambaram, Emeritus Professor, NIT Warangal Dr. G. Ramesh, IIT Madras, Chennai  rperson: Prof. D.V.S.S. Siva Sarma, Dean, FA, NIT Warangal Chairperson: Dr. P. V. Rao, NIT Warangal		ALC BOSE HALL	
			LE .	Dr. Ch. Mohan Rao, Former Director, CCMB Prof. B. V. Appa Rao, Emeritus Research Fellow, TLC, NIT Warangal Dr. P. M. Satyasai, Visiting Faculty, NIT Warangal		DBRALC	
	13.00-14.00			LUNCH	PAN	IDAL	
14.00-15.30 PANEL DISCUSSION			Prof. A. R Dr. Marth Dr. Ch. M Prof. K. N Dr. S. Cha Dr. N. V. I Prof. M. F	:  Mishra, IAS, Spl Chief Secretary, EF S&T, GoTelnagana Reddy, Former Vice Chancellor, Yogi Vemana Univ., YVU, Kadapa a N. Reddy, Associate Director, DRDO, Delhi (Retd) ohan Rao, Former Director, CCMB, Hyderabad arasimha Reddy, President, TAS ndrasekhar, Director, IICT, Hyderabad & Hon'Sec., TAS Ramana Rao, Director, NIT, Warangal landuranga Rao, NIT WARANGAL (Retd) or: Prof. L.R.G. Reddy, Dean, SA, NIT Warangal		DBRALC	
15.30	15.30-16.00			VALEDICTORY FUNCTION	DE	BRALC	
16.00	16.00		HIGH TEA		PANDAL		

(Legend: NIT= National Institute of Technology; TAS = Telangana Academy of Sciences; DST = Department of Science and Technology; TIFR = Tata Institute of Fundamental Research; IICT = Indian Institute of Chemical Technology; NFC = Nuclear Fuel Complex; DRDL = Defence Research and Development Laboratory; DRDO = Defence Research and Development Organisation; CCMB = Centre for Cellular and Molecular Biology; IIT = Indian Institute of Technology; YVU = Yogi Vermana University; ARCI = International Advanced Research Centre for Powder Metallurgy and New Materials; KU = Kakatiya University; C-MET = Centre for Materials for Electronics Technology; IGKV = Indira Gandhi Krishi Vishwavidyalaya; NIN = National Institute of Nutritition; MPPURC = Madhya Pradesh Private University Regulatory Commission; EF S&T = Environment, Forests, Science & Technology; GoT = Government pf Telangana; ANGRAU = Acharya NG Ranga Agricultural University; GoI = Government of India; TLC = Teaching Learning Centre; DBRALC = Dr Babasahab Ambedkar Learning Centre; SHC = Seminar Hall Complex; PMS = Physical and Mathematical Sciences; ET = Engineering and Technology; CS = Chemical Sciences; LSAS = Life Sciences and Agricultural Sciences; MHPS = Medical, Health and Pharmaceutical Sciences; EOAES = Earth, Ocean, Atmospheric and Environmental Sciences; -O- = Oral; -P- = Poster)