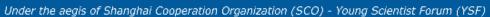


1" Shanghai Cooperation Organization (SCO) - Young Scientist Conclave (YSC)























## Shanghai Cooperation Organization- 1<sup>st</sup> Young Scientists Conclave (SCO-YSC 2020)

A virtual event organsied by India at CSIR-IICT, Hyderabad

**Theme:** Shaping SCO-STI Partnership: Young Scientists Perspectives 24-28 November 2020

#### **PROGRAMME**

24 November 2020- Tuesday				
		Time		
China: 16:30-18:30			Pakistan: 13:30-15:30	
Kazakhstan: 14:30-16:30		Kyrgyzstan: 14:30-16:30	Russia: 11:30-13:30	
	Tajikistan: 13:30	• ••		
14:00 – 16:00 (IST)	Inaugural Session			
		Dr. S Chandrasekhar		
14.00 14.05	Welcome	Director		
14:00 – 14:05		CSIR-Indian Institute of Cher	nical Technology	
		Hyderabad, India		
	Address	Mr. Vladimir Norov		
14:05 - 14:10	Address	Secretary General	Secretary General	
		Shanghai Cooperation Orgar	nization	
	Address	Mr. Vikas Swarup	Mr. Vikas Swarup	
14:10 - 14:15	Address	Secretary (WEST), Ministry of	Secretary (WEST), Ministry of External Affairs	
		Government of India		
	Address	Prof. Ashutosh Sharma		
14:15 - 14:20	Address		Secretary, Dept. of Science and Technology	
		Government of India	Government of India	
		Dr. Harsh Vardhan		
14:20 - 14:30	<b>Inaugural Address</b>	Minister for Health and Fam	Minister for Health and Family Welfare;	
14.20 14.50		Science & Technology and E	arth Sciences	
		Government of India		
	Vote of Thanks	Dr. Sanjeev Kumar Varshne	-	
14:30 - 14:32	Vote of Indiks	· · · · · · · · · · · · · · · · · · ·	Head, International Cooperation Division	
		Department of Science and	Technology	
End of Inaugural session				
14:32 - 14:45	Break			
14:45 – 16:00	Cultural Program (Live Webcasting)			





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	Day 2: 25 <sup>th</sup> November 2020, 10:30 – 18:30 (IST)	
China:	13:00-21:00 India: 10:30-18:30 Kazakhstan: 11:00-19:00	
Kyrgyzstan: 11:00-19:00 Pakistan: 10:00-18:00 Russia: 07:30-15:30		
	Tajikistan: 10:00-18:00 Uzbekistan: 10:00-18:00	
10:30 - 10:35	Statement by SCO Member States, China	
	Ms.Yu Qianwen	
	China Center for International Science and Technology Exchange	
10:35 - 10:40	Statement by SCO Member States, Russia	
	Ms. Elena Gorozhankina	
Deputy Director of the Department for International Cooperation		
	Thematic Session 1	
	Agriculture and Food Processing	
	Chair: Dr. V. B. Patel and Dr.Renu Agrawal	
10:40-10:55	Agriculture in India: Status, challenges and the way forward	
	<b>Dr. V. B. Patel,</b> Indian Agricultural Research Institute, New Delhi, India	
10:55-11:10	The Way ahead for Food Processing	
	<b>Dr. Renu Agrawal,</b> CSIR- Central Food Technological Research Institute, Mysore,	
	India	
	Young Scientist Presentations	
11:10 - 11:20	Non-Targeted Strategies in Assuring Food Safety	
	<b>Boyan Gao,</b> Shanghai Jiao Tong University, China	
11:20 - 11:30	Efficient and low-cost extraction of oligosaccharides and peptides from fruits,	
	vegetables and crops	
	Kangming Tian, Tianjin University of Science and Technology, China	
11:30 - 11:40	Novel nanocomposites for remediation of geogenic arsenic hazard in rice in relation	
	to human health	
	<b>Debasis Golui,</b> ICAR -Indian Agricultural Research Institute, New Delhi, India	
11:40 – 11:50	Application of integrative genomics and trait discovery strategies for crop	
	improvement	
	Alice Kujur, International Crops Research Institute for the Semi - Arid Tropics	
11.50 12.00	(ICRISAT), Hyderabad, India	
11:50 – 12:00	Major Plant Viral Pathogens of North East Region of India: Development of	
	Simplified Diagnostics, Host-Virus Interactions and Management  Susheel Kumar Sharma, ICAR Research Complex for NEH Region, Imphal, India	
12:00 – 12:15	Break	
12:15 – 12:25	Trends in Agriculture and Food processing	
12.10 12.20	Karabaev Nursultan Nurudinovich, Kyrgyz National Agrarian University, Kyrgyzstan	
12:25 – 12:35	Development of novel high-quality eco-products with functional ingredients from	
12.23 12.33	secondary raw materials of grain crops for the prevention of nutritional diseases	
	<b>Bannikova Anna,</b> Saratov State Agrarian University named after N.I. Vavilov, Russia	
12:35- 12:45	Development of a prototype of an information management system by a group of	
	heterogeneous robotic tools for the purpose of comprehensive monitoring of	
	agricultural land	
	Kulikov Andrew, Agency for Strategic Initiatives, Russia	
12:45 – 12:55	Organic Farming by Aqua Vega	





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	Cilli	
ı		
Uzbekistan		

	Radkevich Elena, Russian State Agrarian University/Moscow. Timiryazev	
	Agricultural Academy, Russia	
12:55 -13.05	Advanced Bioinformatics Analyses using R/Bioconductor	
	Muhammad Aqeel, Assistant scientific officer, Pakistan Agricultural Research	
	Council-Islamabad	
13:05 – 16:00	Thematic Networking and Group Discussion on Future Perceptions	
	with a Lunch break from 13:30 – 14:15	
	Chair: Dr. V. B. Patel and Dr. Renu Agrawal	
	Moderator: Mr. Ranaprathap Katakojwala and Dr. Althuri Avanthi, CSIR-Indian	
	Institute of Chemical Technology, Hyderabad	
	Thematic Session 2	
	Sustainable Energy and Energy Storage	
	Chair: Prof B.K. Panigrahi and Dr. Anil Kumar	
16:00-16:15	Smart, Sustainable, Secure, Self-healing Grid	
	<b>Prof B.K. Panigrahi,</b> Indian Institute of Technology Delhi, India	
16:15-16:30	Break	
	Young Scientist Presentations	
16:30 - 16:40	Exploration on mechanism for developing sustainable energy in SCO countries	
	Weiwei Luo, Yunnan Academy of Scientific and Technical Information, China	
16:40 -16:50	Design of nanostructured materials for photocatalytic CO <sub>2</sub> hydrogenation	
	Le He, Soochow University, China	
16:50 - 17:00	Novel methods for the realization of a new generation of Internet of Things (IoT)	
	with high spectral efficiency, low energy consumption and low-maintenance	
	Haipeng Li, College of Information and Communication, National University of	
	Defense Technology, China	
17:00 -17:10	Perovskites based Solar Ink for CO2 Reduction to Gaseous Fuels	
	Shravanti Sudhendra Joshi, G S Mandal's Marathwada Institute of Technology,	
	Aurangabad, India	
17:10 – 17:20	Catalysis for Agricultural Waste Valorisation	
	Saurabh Chandrakant Patankar, Institute of Chemical Technology, Mumbai, India	
17:20 – 17:30	Synthesis and characterization of rare earth and transition metal doped perovskites	
	for multiferroic applications	
	Jada Shanker, Osmania University, Hyderabad, India	
17:30 - 17:40	Sustainable synthesis of azoimidazolium dyes for natural and synthetic fibre	
	<b>Tskhovrebov Alexander,</b> Federal Research Centre for Chemical Physics named after	
	N.N. Semenov RAS, Russia	
17:40 - 17:50	Solid-state adsorption storage systems of methane and hydrogen based on	
	nanoporous composite materials for energy applications	
	Menshchikov Ilya, Institute of Physical Chemistry and Electrochemistry named after	
	A.N. Frumkin RAS, Russia	
17:50 – 18:00	Universal frequency converters and starter devices for electric drives	
	Eremochkin Sergei, Altai State Technical University named after I.I. Polzunov,	
	Russia	
18:00 - 18:10	Development and implementation of high efficiency solar photoelectric energy	
	device 3D format for wide purpose nozi	
	Navruzbek Mirzaalimov, Andijan State University, Uzbekistan	
18:10 – 18:30	Thematic Networking and Group Discussion on Future Perceptions	
10.10 10.00	1	



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	Will be continued on 26 <sup>th</sup> November from 10:30 to 12:00		
	Chair: Prof B.K. Panigrahi and Dr. Anil Kumar		
	Moderator: Dr. Dipak Pinjari, University of Mumbai, Mumbai		
	Day 3: 26 <sup>th</sup> November 2020, 10:30 – 18:30 (IST)		
10.20 12.00			
10:30 - 12:00	Thematic Networking and Group Discussion on Future Perception (Cont)		
12:00 – 12:15	Break		
	Thematic Session 3		
	Biotechnology and Bio-Engineering		
Chair	: Dr. Dmitry Kulikov, Dr. S.Venkata Mohan and Dr.Prem Kumar Arumugam		
12:15-12:30	Thematic lead Talk		
	<b>Dr. Dmitry Kulikov,</b> Vice-Rector for Science of the Moscow State Regional		
	University, Russia		
12:30-12:45	Circular (Bio)economy and Low carbon Considerations in SCO Framework		
	<b>Dr S Venkata Mohan,</b> CSIR-Indian Institute of Chemical Technology, Hyderabad,		
	India		
12:45-13:00	Biotechnology and Bioengineering in India		
	<b>Dr Prem Kumar Arumugam,</b> Associate Vice President-Biology, GVK Biosciences		
	Private Limited, Hyderabad, India		
	Young Scientist Presentations		
13:00-13:10	Biomaterials-based drug delivery platform for immunotherapy for cancer,		
	infectious diseases, autoimmune disorders and age-related disease.		
	Chao Wang, Soochow University, China		
13:10-13:20	Development of Low-Cost Passive Microdevices for Platelet Rich/Poor Plasma		
	Separation from Human Blood		
	Vijai Laxmi, Indian Institute of Technology, Mumbai, India		
13:20-13:30	Polymer-coated Nanoparticles for Antibody Purification		
	Snehasis Bhakta, Cooch BeharCollege, West Bengal,India		
13:30 – 14:15	Lunch Break		
14:15-14:25	Chemistry and genomics of luciferins, fluorescent proteins, and pigments from		
	deep-sea resources for toxicological and anticancer applications		
	Ramesh Chatragadda, CSIR-National Institute of Oceanography, Goa, India		
14:25-14:35	Targeting Genetically Encoded Extracellular Vesicles for Protein Delivery into		
	Macrophages and Dendritic Cells		
	Ovchinnikova Leyla, Institute of Bioorganic Chemistry RAS, Russia		
14:35-14:45	Development of accelerated technology for growing planting material of blue		
	honeysuckle		
44.45.44.55	Natalia Semyonova, Federal Scientific Agroengineering Centre VIM, Russia		
14:45-14:55	The complete cycle of ethylene production from biomass		
14.55 15.05	Branzaraktsaeva Sardana, Boreskov Institute of Catalysis, Russia		
14:55 - 15:05	Breast Cancer Detection Using Artificial Intelligence		
15 05 _ 15 15	Muslimbek Pirnazarov, Turin Polytechnic University, Uzbekistan  Panana Punchy Ton Virus (PRTV) Control in Polyistan through Tissue Culture		
15.05 – 15.15	Banana Bunchy Top Virus (BBTV) Control in Pakistan through Tissue Culture		
	Technology  Muhammad Zeshan, NIGAB-National Agriculture Research Centre (NARC),		
	Islamabad, Pakistan		
15:05 – 17:15	Thematic Networking and Group Discussion on Future Perceptions		
13.03 – 17.13	mematic Networking and Group Discussion on Future Perceptions		



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	Chair: Dr. Dmitry Kulikov, Dr. S.Venkata Mohan and Dr.Prem Kumar Arumugam		
	Moderator: Mr. Aman Aggarwal, NCBS Bengaluru, India		
17:15-17:30	Break		
	Thematic Session 4		
Combating COVID 19 and Emerging Pandemics through Research			
	and Innovation		
	Chair: Prof. Dr. Man Mohan Mehndiratta and Dr. Anant Mohan		
17:30-17:45	Combating Pandemics: So far, Current Status and Way Forward		
	<b>Prof. Dr. Man Mohan Mehndiratta,</b> Janakpuri Super specialty Hospital, New Delhi,		
	India		
	Young Scientist Presentations		
17:45-17:55	Lung Distribution of Antivirals Matters in COVID-19 Treatment		
	<b>Yan Wang,</b> Shenzhen Institutes of Advanced Technology, Chinese Academy of		
47.55.40.05	Sciences, China		
17:55-18:05	Commercialization of the new ideas for the medical management of CBRN		
	emergencies  Naurant Sharma, Indian Institute of Tashnology, India		
18:05-18:15	Navneet Sharma, Indian Institute of Technology, India Graphene in the fight against pandemics		
10.03-10.13	Anamika Singh, DeenDayal Upadhyaya, Gorakhpur University, Gorakhpur, India		
18:15-18:25	Design and development of a low-cost powered air-purifying respirator (PAPR) for		
10.13 10.23	frontline medical workers for COVID-19 response		
	Vishnu Jayan, Jr Embedded Systems Engineer. AMMACHI Labs, Amrita Vishwa		
	Vidyapeetham, Amritapuri, India		
	Day 4: 27 <sup>th</sup> November 2020, 10:30 – 19:00 (IST)		
	Thematic Session 4 (cont)		
10:30-10:40	Method for predicting the spread of viral diseases using Big Data		
10.30-10.40	Dr.Pljonkin Anton, Southern Federal University, Russia		
10:40-10:50	Multimodal communication for monitoring the health status of a person		
10.10 10.50	Dr.Pakulova Ekaterina, Southern Federal University, Russia		
10:50-11:00	Web-based platform aimed to help building the infrastructure capable of		
	uninterruptible power supply for COVID-19 hospitals		
	Kryltsov Sergey, Saint-Petersburg Mining University, Russia		
11:00-11:10	The importance of telemedicine during COVID-19 pandemic		
	<b>Nozimjon Tuygunov,</b> Ministry of The Innovative Development of The Republic of		
	Uzbekistan, Uzbekistan		
11:10 - 13:00	Thematic Networking and Group Discussion on Future Perceptions		
	With a break from 11:55 Noon to 12:10 PM		
	Chair: Prof. Dr. Man Mohan Mehndiratta and Dr. Anant Mohan		
	Moderator: Dr. Sonu Gandhi, NIAB, Hyderabad		
	Thematic Session 5		
Envi	ironmental Protection and Natural Resource Management		
Chair: Dr.	Aladin Danila , Prof. P. Rajendra Prasad, Prof. N C Gupta and Dr. Arvind Kumar		
13.00-13.15	Thematic Talk		
	<b>Dr. Aladin Danila,</b> Institute of Basic Biological Problems RAS (IBBP RAS), Russia		
13.15-13.30	Environmental Health, Climate Change and Sustainable Development goals: Issues		
	and Challenges		





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	<b>Prof. N. C. Gupta,</b> IPU New Delhi, India		
13:30-14:15	Lunch Break		
	Young Scientist Presentations		
14.15-14.25	Reconstructing annual ground water storage changes by integrating the remote data and simple water balance mode: Case study in crop land, Pakistan  Yin Tang, Institute of Geographic Sciences and Natural Resources Research, China		
14.25-14.35	Problem of bacterial antibiotic resistance in drinking water treatment  Kun Wan, College of the environment and ecology, Xiamen University, China		
14.35-14.45	Biodegradable products from agro waste  Anjineyulu Kothakota, CSIR- National Institute for Interdisciplinary  Science and Technology (NIIST), Thiruvananthapuram, India		
14:45-14:55	Materials Engineering for Water Pollutants Monitoring: Lab to Land <b>Pooja Devi,</b> CSIR-Central Scientific Instrument Organisation, Chandigarh, India		
14:55-15:05	Water-Free Natural Fiber Processing Techniques: Strategies for Development of "Solvent-cum-Reagent" Model  Sathish Murali, CSIR – Central Leather Research Institute, Regional Centre for Extension and development, Kolkata, India		
15:05-15:15	Obtaining humic premixes based on complex processing of natural materials  Mambetjanova Nurila, Scientific adviser: Doctor of Chemical Sciences, Kyrgyz  National University. J.Balasagyn		
15:15-15:25	RESEARCH AND DEVELOPMENT OF SMART FACTORY FOR BIOTECH PRODUCTS IN THE KYRGYZ REPUBLIC  Oman A. Abyshev, Kyrgyz National University. J.Balasagyn		
15.35-15.45	Saline lakes for nature conservation and sustainable development  **Anufriieva Elena, Institute of Biology of the Southern Seas named after A.O.  **Kovalevsky RAS, Russia**		
15.45-16.00	Break		
16.00-16.10	Reconstruction of waste water treatment plants to conserve water resources  Makisha Nikolay, Moscow State University of Civil Engineering, Russia		
16.10-16.20	Innovative biotechnological products for cleaning oil-contaminated lands in various natural and climatic conditions  Sivtsev Semyon, Institute of Oil and Gas Problems of the Siberian Branch (SB) RAS, Russia		
16.20-16.30	Humic Composites Containing Iron And Neodymium Oxide And Hydroxide Nanoparticles: Synthesis And Characteristics  Samarkulov Almir Turdalyevich, Kyrgyz National Agrarian University, Kyrgyzstan		
16.30-16.40	Curbing the Smog and Air Pollution in Pakistan  **Khalid Mehmood Chadhar**, Pakistan Environmental Protection Agency, Ministry of Climate Change Quetta		
16.40-16.50	Water Resources of Pakistan in context of Climate Change  *Amjad Masood*, Water Resources and Glaciology Section, Global Change Impact  Studies Centre (GCISC), Ministry of Climate Change, Islamabad		
16.50-17.00	Genetic Transformation Of <i>Dreb1a</i> Gene In Wheat ( <i>Triticum Aestivum</i> L.) For Drought And Salt Tolerance  Sabahat Noor, National Agricultural Research Center, Ministry of National Food Security and Research		



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Theme: Shaping SCO-STI Partnership - Young Scientists Perspectives

















17.00.17.10	Development and Evaluation of Food Crede Costings (News, comments Film) to		
17.00-17.10	Development and Evaluation of Food Grade Coatings (Nano-composite Film) to		
	Extend the Shelf Life of Fruit and Vegetables		
	Saqib Jabbar, Food Science Research Institute (FSRI), National Agricultural Research Centre (NARC), Islamabad		
17.10-17.20	Olive Fruit Harvesting And Oil Extraction		
17.10-17.20	Abdul Latif, PARC, Balochistan Agricultural Research and Developmental Centre,		
	Quetta		
17.20-17.30	Dry land research and improvement of Khushkaba Farming System		
17.20-17.50	Muhammad Iqbal, PARC, Balochistan Agricultural Research and Developmental		
	Centre, Quetta		
17.30-17.40	Allocation of water resources over the Amu Darya river basin for sustainable		
17.100 17.110	development		
	Wenbin Zhu, Associate Professor, Institute of Geographic Sciences and Natural		
	Resources Research, Chinese Academy of Sciences		
17.40 – 19:00	Thematic Networking and Group Discussion on Future Perceptions		
	Chair: Dr.Aladin Danila, Prof. P. Rajendra Prasad and Prof. N C Gupta		
	Moderator: Ms. Anchal Garg, Guru Gobind Singh Indraprastha University, Delhi		
	Day 5: 28 <sup>th</sup> November 2020, 10:30 – 13:30 (IST)		
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Shaping S	Day 5: 28 <sup>th</sup> November 2020, 10:30 – 13:30 (IST)  SCO-STI Partnership & Road Map: Young Scientists Perspectives		
Shaping S			
	SCO-STI Partnership & Road Map: Young Scientists Perspectives		
You	SCO-STI Partnership & Road Map: Young Scientists Perspectives  Joint Presentations by SCO Young Scientists		
You	SCO-STI Partnership & Road Map: Young Scientists Perspectives  Joint Presentations by SCO Young Scientists  ung Scientists' joint presentations on synergic thematic perceptions		
You	SCO-STI Partnership & Road Map: Young Scientists Perspectives  Joint Presentations by SCO Young Scientists  ung Scientists' joint presentations on synergic thematic perceptions  Agriculture and Food Processing		
<b>Υου</b> 10:30-11:10	SCO-STI Partnership & Road Map: Young Scientists Perspectives  Joint Presentations by SCO Young Scientists  ung Scientists' joint presentations on synergic thematic perceptions  Agriculture and Food Processing  • Presentation of Report by Dr. Renu Agarwal		
<u>Υου</u> 10:30-11:10	SCO-STI Partnership & Road Map: Young Scientists Perspectives  Joint Presentations by SCO Young Scientists  ung Scientists' joint presentations on synergic thematic perceptions  Agriculture and Food Processing  Presentation of Report by Dr. Renu Agarwal  Presentation by Young Scientist, Debasis Golui & Susheel Kumar Sharma		
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You 10:30-11:10  11:10-11:50  11:50-12:30  12:30-13:10	SCO-STI Partnership & Road Map: Young Scientists Perspectives  Joint Presentations by SCO Young Scientists  Ing Scientists' joint presentations on synergic thematic perceptions  Agriculture and Food Processing  Presentation of Report by Dr. Renu Agarwal  Presentation by Young Scientist, Debasis Golui & Susheel Kumar Sharma  Sustainable Energy and Energy Storage  Presentation of Report by Dr. B. K. Panigrahi  Presentation by Young Scientist, Saurabh Chandrakant Patankar & Le He  Biotechnology and Bio-Engineering  Presentation of Report by Dr. Dmitry Kulikov  Presentation by Young Scientist, Snehasis Bhakta  Combating COVID 19 and Emerging Pandemics  Presentation by Young Scientist, Nanneet Sharma		

Shanghai Cooperation Organization- 1<sup>st</sup> Young Scientists Conclave (SCO-YSC 2020)

A virtual event organsied by India at CSIR-IICT, Hyderabad



1" Shanghai Cooperation Organization (SCO) - Young Scientist Conclave (YSC)





24-28 November 2020 | Virtual Event | Hyderabad, India

Theme: Shaping SCO-STI Partnership - Young Scientists Perspectives















# Theme: Shaping SCO-STI Partnership: Young Scientists Perspectives 24-28 November 2020

#### **Valedictory Session**

28 <sup>th</sup> November 2020 – Saturday		
Time		
		14:45-16:00 Pakistan: 14:15-15:30
Kazakhstan:	, 0,	zstan: 15:15-16:30 Russia: 12:15-13:30
	Tajikistan: 14:15-15:	Uzbekistan: 14:15-15:30
14:45 – 14:50	Conclave Report by Convener	<b>Dr. S Venkata Mohan,</b> Senior Principal Scientist, CSIR-Indian Institute of Chemical Technology (CSIR-IICT), Hyderabad
14:50 – 15:05	Feedback	From Young Scientists
15:05 – 15:15	Expert Impressions and Remarks	Prof. Dr. P Rajendra Prasad, Andhra University, Visakapatnam Prof. Dr. Man Mohan Mehndiratta, Janakpuri Super Specialty Hospital, New Delhi
15:15 – 15:25	Way Forward	Dr. Sanjeev Kumar Varshney, Head, International Cooperation Division, Department of Science and Technology Dr. Arvind Kumar, Scientist, Department of Science and Technology, New Delhi
15:25 – 15:35	Announcement	Best Presentation(s) Awards
15:35 - 15:45	Guest of Honor remarks	<i>Dr. N.V. Satyanarayana,</i> Chief Scientist and Deputy Director, Indian Institute of Chemical Technology (CSIR-IICT), Hyderabad
15:45 - 15:55	SCO Member States Remarks	Irina R. Kuklina, Executive Director, International Centre for Innovation in Science, Technology and Innovation, Russia
15:55 – 16:00	Vote of Thanks	<b>Dr. S Venkata Mohan,</b> Senior Principal Scientist, CSIR-Indian Institute of Chemical Technology (CSIR-IICT), Hyderabad