

ISFL-2018 Program at a Glance

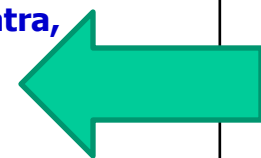
April 15, 2018 (Sunday)	April 16, 2018 (Monday)	April 17, 2018 (Tuesday)
INAUGURAL SESSION (0930-1100 hrs) → A) Inauguration of Symposium (0930 – 1045 hrs) B) Inauguration of Exhibition (1045 – 1050 hrs) C) Inauguration of Poster Session (1050 - 1100 hrs)	PLENARY SESSION - II (0915 - 1045hrs) →	PLENARY SESSION - III (0915- 1045hrs) →
High Tea (1100 – 1130 hrs)	Tea (1045 – 1100 hrs)	Tea (1045- 1100 hrs)
PLENARY SESSION - I → (1130 - 1300 hrs)	Technical Session – III (1100 - 1300 hrs) TS III A → TS III B → TS III C AO-III Refining Tech. Biofuels	PANEL DISCUSSION-II → (1100-1230 hrs) Lubricant Indian Scenerio VALEDICTORY SESSION → (1230– 1330 hrs)
LUNCH (1300 – 1400 hrs)	LUNCH (1300 – 1400 hrs)	LUNCH (1330 - 1430hrs)
Technical Session – I (1400- 1600 hrs) TS I A → TS I B → TS I C AO-I IL-1 Fuel Quality & Emissions	Technical Session – IV (1400- 1600 hrs) TS IV A → TS IV B → TS IV C AO-IV Analytical Techniques Nano Tech	
Tea (1600- 1615 hrs)	Tea (1600- 1615hrs)	
Technical Session – II (1615 – 1815 hrs) TS II A → TS II B → TS II C AO-II IL-2 Alternative Fuel	Technical Session - V (1615 – 1815 hrs) TS V A → TS V B → TS V C MWO-Grease Startup Energy Conservation	
POSTER SESSION - I (1000 - 1500 hrs)	POSTER SESSION - II (1000 - 1500 hrs)	
PANEL DISCUSSION - I → (1900 – 2000 hrs) Clean Environment Imperatives		
Networking Dinner (2000 - 2230 hrs)	Cultural Program/Conference Dinner (1900 - 2230 hrs)	

Inaugural Session

April 15, 2018 Sunday (0930-1100 hrs)

Venue: Main Hall Tango

0930 – 0935 hrs	Invocation	
0935 – 0940 hrs	Welcome address and introduction of ISFL-2018	Dr. Deepak Saxena, IndianOil R&D & Convener ISFL2018
0940 – 0955 hrs	Theme address	Dr. SSV Ramakumar, Director (R&D) IndianOil & Chairman, NSC ISFL2018
0955 – 1015hrs	Inaugural Address by Chief Guest	Shri Sanjiv Singh, Chairman, IndianOil & Patron, NSC ISFL2018
1015 – 1035 hrs	Keynote Address	Mr. Tom Curtis, Corporate VP & President, Lubrizol Additives, USA
1035 – 1040 hrs	Release of ISFL-2018 Souvenir/Conference proceedings	Shri Sanjiv Singh , Chairman, IndianOil & Patron, NSC ISFL2018
1040– 1045 hrs	Vote of thanks	Dr. S.K. Puri, CGM(Bio Energy), IndianOil R&D & Organizing Secretary ISFL2018
1045 – 1050 hrs	Inauguration of Exhibition Venue : Foyer of Tango Hall	Shri Sanjiv Singh, Chairman, IndianOil & Patron, NSC ISFL2018
1050 – 1100 hrs	Inauguration of Poster Session Venue : Debate Hall (1st Floor)	Shri Ranjan Kumar Mohapatra, Director (HR), IndianOil

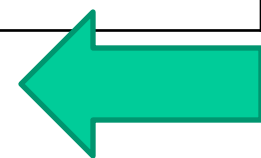


Valedictory Session

(April 17, 2018 Tuesday, 1230-1330 hours)

Venue : Main Hall Tango

1230 – 1245 hrs	Welcome address	Dr SSV Ramakumar, Director (R&D) IndianOil & Chairman, NSC ISFL2018
1245 – 1255 hrs	Summary of ISFL-2018	Deepak Saxena, Executive Director (LT) IndianOil R&D & Convener ISFL2018
1255 – 1320 hrs	Valedictory Address by the Chief Guest	Sh B Ashok , CEO, Ratnagiri Refinery and Petrochemicals Limited
1320 – 1325 hrs	Symposium Awards	Announcement by Dr Deepak Saxena, Executive Director (LT) IndianOil R&D & Convener ISFL-2018
1325 – 1330 hrs	Vote of thanks	Dr. S K PURI , CGM(Bio Energy), IndianOil R&D & Organizing Secretary ISFL2018



Plenary Session - I

April 15, 2018 Sunday (1130 – 1300 hrs)

Venue –Main Hall (Tango)

Chairperson: Shri M. R. Kumbhani, CMD, Lubrizol India

**Dr Bruce Royan,
Infineum, UK**

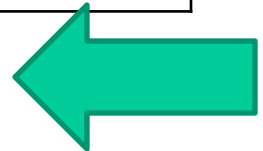
**Charting Industry Complexity and the
Future: Global Learning's for India's
Automotive Lubricant Industry**

**Adam Kidson,
Lubrizol Additives, UK**

**Heavy Duty Diesel Engine Oil for
Bharat Stage VI**

**Dr. Miltiadis Papachristos,
Dorf Ketal Chemicals, USA**

**Additive Solutions for BSVI Fuels –
The Global Experience**



Plenary Session – II

April 16, 2018 Monday (0915 – 1045 hrs)

Venue – Main Hall (Tango)

Chairperson: Shri G. SriGanesh, Executive Director, HPCL

**Mr. Matthias Zorn,
BASF, Germany**

**Do we Need Fuel Additives in
Modern Direct Injection Engines?**

**Prof Colin Barrow,
Deakin University, Australia**

**Biofuel and co-product production
from omega-3 rich oils**

**Ms. Lisa Wolschlag ,
UOP, USA**

**Hydroprocessing to Maximize
Profitability -Honeywell UOP
Unicracking & Unionfining
Technologies**



Plenary Session – III

April 17, 2018 Tuesday (0915 – 1045 hrs)

Venue – Main Hall (Tango)

Chairperson: Dr. SSV Ramakumar, Director (R&D), IndianOil

**Mr. Aviv Tzidon,
CEO, Phinergy, Israel**

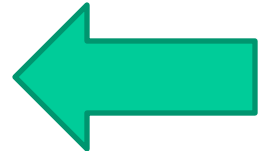
Fossil fuel-free future

**Dr Tapan Sahoo,
Vice President, Maruti Suzuki,
India**

OEM perspective for Future Evs

**Prof Jacob Karni
Weizmann Institute of Science,
Israel**

**Solar Energy as Alternative
Energy Option**



Panel Discussion-I

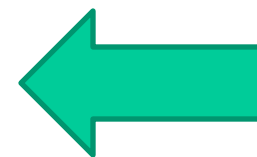
April 15, 2018 Sunday (1900– 2000 hrs)

Venue – Main Hall (Tango)

Clean Environment Imperatives

Moderator : Dr Anjan Ray , Director, IIP, India

Panelist	Topic
Dr R K Malhotra, DG, FIPI, India	Hydrogen as future fuel in India
Dr SSV Ramakumar, Director (R&D), IndianOil, India	Fuel Quality Upgradation as a clean Air Initiatives.
Shri P.K. Banerjee, Executive Director, SIAM, India	Emission improvements with the use of BS VI fuel in old vehicles
Prof K K Pant, IIT-Delhi	Role of Waste to energy for clean environment



Panel Discussion-II

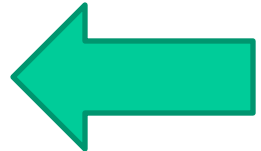
April 17- 2018 Tuesday (1100-1230 hrs)

Venue – Main Hall (Tango)

Lubricants Indian Scenario

Moderator : Shri K L Murthy, ED(Lubes), IndianOil Mkt, India

Panelists	Topic
Shri P. Panda, Executive VP, Maruti Suzuki, India	Engine technologies for BSVI compliance
Shri S K Raghuram, Director, Infineum, India	Future Lubricants for PCMO & PCDEO vehicles
Shri T L Sethuram, LIPL, India	Future Lubricants for HDD vehicles & Tractor



April 15, 2018 (Sunday)
Technical Session – I A (1400 – 1600 hrs)

<u>Automotive Oils – I</u>	
Venue – Tango-I	
Chairperson: Dr S K Majumdar , ED(RT) , IOC(R&D), India	
510	Improving Vehicle Fuel Efficiency through the right choice of Viscosity Index Improver in Engine Oils. Phil Hutchinson, Evonik Germany
522	Beyond the Viscosity Index: the delicate role of viscosity modifiers in modern crankcase lubricants JunHan Li, Infineum, Singapore
526	Move to Low Viscosity Engine Oil for Passenger Cars Kailash Sawant, Lubrizol India Pvt. Ltd, India
334	Studies on Friction and Wear properties of Low Viscosity Passenger Car Diesel Engine oil Snigdhamayee Praharaj, IOC R&D, India



April 15, 2018 (Sunday)
Technical Session – I B (1400 – 1600 hrs)

<u>Industrial Lubricants-I</u>	
Venue – Tango-II	
Chairperson: Dr. S P Srivastava, Former ED(LT), IndianOil R&D, India	
513	New insight into the benefits of synthetic esters in challenging lubricating applications Siegfried Lucazeau, NYCO, France
520	Energy Efficient Basestock: Optimizing energy efficiency in gear applications using high viscosity base stocks Mr. Neville Colaco, BASF, India
350	Hydroxy Fatty Acid Containing Castor Oil-Based Lubricant Base Stocks: Potential Base Oil for Industrial Applications Devarapaga Madhu, IICT, India
347	Performance Validation of Synthetic heat transfer fluid in hot oil system of Petrochemical Industry Kavita Rai, IOC R&D Centre



April 15, 2018 (Sunday)
Technical Session – I C (1400 – 1600 hrs)

Fuel Quality & Emissions

Venue – Tango-III

Chairperson: Shri Brijesh Kumar, ED, CHT, India

322	Future Trends of Fuel and Emission Standards in Asia Pacific You Wei Aw, Stratas Advisors, Singapore
515	The challenges of introducing Bharat VI in India and the contribution of Fuel Borne Catalyst (FBC) technology Amy Challinor, Infineum, USA
537	Fuel Borne Catalyst, a cost-effective and robust solution for DPF regeneration and CO2 emission reduction Ashish Das, Solvay Special Chem, India
333	A Novel Cost Effective Lubricity additive for BSIV & BSVI diesel K.R. Krishna, HPCL, India
Standby 338	Driving cycle performance and emission analysis of a motorcycle with gasoline and E20 fuel P. Sakthivel, IndianOil R&D, India



April 15, 2018 (Sunday)
Technical Session – II A (1615 – 1815 hrs)

Automotive Oils – II

Venue – Tango-I

Chairperson: Shri K K Gandhi, Former ED, SIAM, India

302	<p>The Role Additive Chemistry Plays in Increasing and Decreasing Timing Chain Wear</p> <p>Carl Esche, Vanderbilt Asia Pacific Ltd., China</p>
507	<p>The Fuel Economy Performance of MoDTC Friction Modifiers in Ultra-low Viscosity Engine Oils under NEDC and WLTP Test Conditions</p> <p>Shinji Iino , ADEKA Corporation, Tokyo, Japan</p>
518	<p>The role of fatty amine chemistry to reduce friction in automotive lubricants</p> <p>Nikhil Belgaonkar, Akzo Nobel, India</p>
503	<p>Innovative Zero Ash Diesel Engine Oil for BS VI diesel engines</p> <p>G.K.Sharma, Alternative Innovations Pvt Ltd, India</p>



April 15, 2018 (Sunday)
Technical Session – II B (1615 – 1815 hrs)

Industrial Lubricants-II

Venue – Tango-II,

Chairperson: Shri Amitabh Akhauri, CGM (LS), IndianOil Mkt, India

511	The contribution of hydraulic fluids to the efficiency of industrial equipment Thomas Schimmel, Evonik, Germany
299	Formulating Slideway Lubricants for Extended Metalworking Fluid Life Santhesh Kumar, Afton, India
538	Development of High Performance Grinding Lubricant Sharmila Barman, Balmer Lawrie & Co. Ltd, India
543	Fuel efficient hydraulic oils – a case study A K Jaiswal, IndianOil R&D, India



April 15, 2018 (Sunday)
Technical Session – II C (1615 – 1815 hrs)

<u>Alternative Fuels</u>	
Venue – Tango-III	
Chairperson: Dr A K Bhatnagar, Former Director(R&D), IndianOil, India	
311	Methanol Fuels: Driving Global Energy & Environmental Security Dom LaVigne, Methanol Institute, Singapore
	Commercial mobile natural gas market Aditya Rane, IAL, India
330	Conversion of carbon dioxide into methanol - a potential liquid fuel: Catalysis and Kinetics Pintu Maity, BPCL R&D, India
528	Thermal conversion of bio oil to petroleum products THVD Prasad, IndianOil R&D, India



April 16, 2018 (Monday)
Technical Session – III A (1100-1300 hrs)

<u>Automotive Oils – III</u>	
Venue – Tango-I	
Chairperson: Shri N R Raje, Former Dir (R&D), IndianOil, India	
525	Driveline Fluids Trends in Vehicle Electrification Vikas Hegde, Lubrizol India Pvt. Ltd
512	Lubricant role in shift performance of manual transmissions Sanjeev Kashikar, Evonik, Germany
328	EFFICIENT DRIVELINE LUBRICANTS Sarita Seth, IOC R&D Centre
555	Formulation strategies for fuel economy – dedicated additives for low viscosity lubricants Jeenal Patel, Afton, India



April 16, 2018 (Monday)
Technical Session – III B (1100-1300 hrs)

<u>Refining Technology</u>	
Venue – Tango-II	
Chairperson: Shri S M Vaidya , ED(O) , IndianOil, RHQ, India	
301	Heavy Naphtha Octane upgradation through Isomerization N.Viswanadham, Indian Institute of Petroleum, India
523	Commercialization of Energy Efficient & Eco-friendly Anode Grade Coker Technology S. K. Das, IndianOil R&D, India
319	[HP]2 FCC: A Technology for Producing High Value Petrochemical Feedstock Somanath Kukade, HPCL R&D, India
527	Study of thermally induced structural changes crystalline petroleum coke <u>Pradeep PR</u>, IndianOil R&D, India



April 16, 2018 (Monday)
Technical Session – III C (1100-1300 hrs)

<u>Biofuels</u>	
Venue – Tango-III	
Chairperson: Dr D K Tuli , DBT Chair, India	
542	Carbon Recycling Sangeet Jain, Lanzatech, India
318	Praj's Integrated 2G Smart Bio-refinery Vasudeo Joshi, Praj Industries Limited, India
532	Fungal strain Improvement and cellulase cocktail preparation for economic conversion of biomass to biofuels Mukund Adsul, DBT IndianOil R&D, India
346	Biomass to Bioethanol: Development of Simple and Novel CAPEX Effective Conversion Technologies K Ravindernath, Indian Institute of Chemical Technology, India



April 16, 2018 (Monday)
Technical Session – IV A (1400-1600 hrs)

<u>Automotive Oils – IV</u>	
Venue – Tango-I	
Chairperson: Mr Thomas Schimmel, Evonik Germany	
521	Exploring motorcycle fuel economy gains Marc Meads, Infineum, UK
313	Engine Oil Technology Oriented to meet Stringent Requirements of ILSAC GF-6 Specification Alberto Roselli, Sumitomo Corporation India Pvt. Ltd., India
541	Deposit Control Additives for Performance and Protection in Gasoline Direct Injection Engines. Anand Kumar, Afton, India
509	Study on durability of engine & engine oil in presence of contaminants Anand Prakash Gupta, Bharat Petroleum Corp. Ltd, India



April 16, 2018 (Monday)
Technical Session – IV B (1400-1600 hrs)

Analytical Techniques

Venue – Tango-II

Chairperson: Dr G S Kapur, CGM I/C (CT), IndianOil R&D, India

504	Meeting Bharat stage VI ultra low sulfur analysis requirements in liquid petroleum using MWDXRF Leslie Ann Jhonson, XOS, USA
546	Performance evaluation of hydro processing catalyst by X ray photo electron spectroscopy Rashmi Bagai, IndianOil R&D, India
337	Advanced characterization of pyrolysis bio oil with combination of multidimensional gas and liquid chromatographic methods Ch Siva Kesava Raju , HPCL R&D Center, Bangalore
370	Additive-additive interaction in lubricants: A case study for development of tractor transmission oil Ravindra Kumar, IndianOil R&D, India



April 16, 2018 (Monday)
Technical Session – IV C (1400-1600 hrs)

Nano-Technology
Venue – Tango-III

Chairperson: Prof Jayshree Bijwe, IIT-Delhi, India

324	<p>Nanostructural Layered Materials and Ionic Liquids as New Generation Additives for Enhancing the Lubrication Properties Om P Khatri, Indian Institute of Petroleum, India</p>
345	<p>Novel and high temperature stable molten salt/organic based Nano thermic fluids for concentrated solar power (CSP) applications Kanaparthi Ramesh, HPCL, India</p>
544	<p>Development and evaluation of novel nano dispersion for oil fired boilers M I S Sastry, IndianOil R&D, India</p>
335	<p>A novel nano-lubricant formulation for the production of high performance lubricants Naresh Kottari, HPCL, India</p>



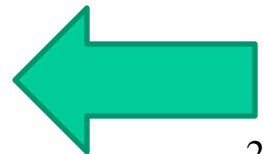
April 16, 2018 (Monday)
Technical Session – V A (1615 – 1815hrs)

<u>Metal Working Oil & Greases</u>	
Venue – Tango-I	
Chairperson: Dr Deepak Saxena, ED (LT), IndianOil R&D, India	
524	New Developments in Ashless Rust Preventive Technology Sandeep Sarode, Lubrizol India Pvt. Ltd, India
519	Trends & Challenges in Antifreeze Technologies: Downsized Engines and Electrical Vehicles Manthan Sanghvi, BASF India Ltd, India
529	A NEW HIGH PERFORMANCE POLYUREA GREASE Nidhi Jain, Siddharth Grease & Lubes Pvt. Ltd, India
540	Hard Metal Machining, the Chlorine free future Sachin Jadhav, Afton, India



April 16, 2018 (Monday)
Technical Session – V B (1615 – 1815hrs)

<u>Startup</u>	
Venue – Tango-II	
Chairperson: Shri TSR Gopala Rao, CGM (TPF), IndianOil R&D, India	
317	Startup Ecosystem in Oil & Gas Sector – An insight Pankaj Kasliwal, IndianOil R&D, India
517	Smart Public Toilets Anirudh Yadav, Sukriti NGO, India
552	Excelling through innovation – role of startups in the era of disruption Saji Gopinath, Kerala Startup Mission, India
553	Start up idea / opportunity validation Ramesh Loganathan, IIIT, India



April 16, 2018 (Monday)
Technical Session – V C (1615 – 1815hrs)

Energy Conservation

Venue – Tango-II

Chairperson: Shri Alok Tripathi, Executive Director (PCRA), India

560	R&D Initiatives on Conservation by PCRA Surendra Pratap, PCRA, India
561	Fuel Efficiency Norms for Heavy Commercial Vehicle Prashant Rawat, PCRA, India
559	PAT in PSU Refineries A.V. Joshi, PCRA, India

