22nd Lubricating grease conference
ON “LATEST TRENDS IN GREASE INDUSTRY”

Marriott Hotel, Indore, India
February 1-3, 2020

www.nlgi india.org
Dr. S.S.V. Ramakumar
Conference Chairman
President NLGI India Chapter
Director, IOCL R&D Centre

Organising Committee

Dr. Deepak Saxena
Executive Director (LT)
Indian Oil Corporation Ltd.

Mr. V. Sathishkumar
Executive Director
Indian Oil Corporation Ltd.

Mr. Sanjeev Kundra
Chief General Manager - TS
Indian Oil Corporation Ltd.

Dr. T. Singh
Dy. General Manager-R&D
Bharat Petroleum Corp. Ltd

Dr. N.K. Pokhriyal
Chief Research Manager
Indian Oil Corporation Ltd.

Mr. Avinash Kumar
Technical Service Engineer
Indian Oil Corporation Ltd.
22nd Lubricating grease conference
ON “LATEST TRENDS IN GREASE INDUSTRY”

Marriott Hotel Indore,
Madhya Pradesh, India
February 1-3, 2020

Technical Committee

Dr. T. Singh
Dy. General Manager-R&D
Bharat Petroleum Corporation Ltd

Dr. Deepak Saxena
Executive Director (LT)
Indian Oil Corporation Ltd.

Dr. J. Bhatia
Director
EnvironTech (India)

Dr. M. L. Das
VP, R&D – Greases & Lubes SBU
Balmer Lawrie & Co. Ltd.

Mr. N R Bhopatkar
Sr. Vice President, Tech. Services
Apar Industries Ltd.

Dr. Balaram Ghosh
Ex- Balmer Lawrie & Co. Ltd.

Mr. N.S. Ramanathan
Sr. Vice President (Tech)
Standard Greases & Specialities Pvt. Ltd.

Dr. T.C.S. M. Gupta
Sr Vice President,
Apar Industries Ltd.
Lubricating grease conference - A brief summary

NLGI-USA

NLGI-USA, a premier society in the field of lubricating grease, spanning over 26 countries with more than 250 corporate members. Since 1933, NLGI is providing service to grease industry through annual general meetings/ conferences, education courses, working groups on various grease related issues, funding basic research projects, conducting round robin tests, etc. It has links with other societies such as European Lubricating Grease Institute, China Lubricating Grease Institute, etc., thereby providing a global platform for sharing grease industry information with an objective to serve grease industry in a better way, the society also forms local chapters in different countries.

NLGI - India Chapter

India Chapter of NLGI was formed in 1997 and it has since been very active and is rendering services to Indian grease industry by way of conducting education courses on various grease related subjects relevant to consumers / manufacturers, organizing round robin tests on various test methods, conducting grease conferences and publishing quarterly journal “Greasetech India”. This society has membership from all major petroleum industries from public sector as well as private sector, other related industries, research institutes, etc. The primary objective of this society is to bring grease industry related personnel including consumers on to a common platform so that their mutual business interests can be discussed and shared. NLGI-India Chapter has so far successfully organized many programs, viz. 20 Grease Education Courses, 4 Round Robin tests and published 64 issues of “Greasetech India”, etc.

Grease Conferences in India

with a view to bring grease & its allied industries people on to a common platform where areas of mutual technical and business interest could be discussed in detail. India Chapter of NLGI has been organizing exclusive grease conferences in India on similar lines as is being done by its parent body, NLGI-USA.

So far NLGI-India Chapter has organized 21 conferences at various exotic locations:

- 1st Lubricating Grease Conference, February 11-12, 1999 at Nainital in Uttarakhand
- 21st Lubricating Grease Conference, February 7-10, 2019 at Guwahati in Assam

22nd Lubricating Grease Conference

NLGI-India Chapter conferences have now become a focal point for grease related industry personnel and users to promote their business interest in this part of the world. After overwhelming response and success of previous 21 conferences, the venue of the 22nd Conference has been finalized as Marriott Hotel Indore, Madhya Pradesh to be held during February 1-3, 2020.
Indore the conference Destination

**Indore City - Mini Mumbai**

Indore city, is in the Madhya Pradesh state of central India. It is located in an upland area on the Saraswati and Khan rivers, which are tributaries of the Shipra River.

Indore was founded in 1715 as a trade market on the Narmada River valley route by local landowners, who erected Indreshwar Temple (1741), from which the name Indore is derived. It became the capital of the Indore princely state of the Maratha Holkars, and it was the headquarters of the British Central India Agency and the summer capital of Madhya Bharat (1948-56) state before its incorporation into Madhya Pradesh.

Indore is the most-populous city in the state. Major industries include the manufacture of textiles, tile, cement, chemicals, tents, furniture & sporting goods, grain milling and metalworking. There are auto and cycle workshops, engineering works and traditional industries as pottery making & hand-loom weaving are also flourishing. The city is a major road and rail junction and has an airport for domestic flights.

*As Mumbai is to Maharashtra, Indore is to Madhya Pradesh.* Indore and Mumbai also have some cultural similarities which is a reason behind regarding Indore as “Mini-Mumbai”.

Indore is most cleanest city in India. The city is known for its street food and eateries.

**Places to visit in Indore and around**
- Mahakaleshwar, Ujjain (~55 Kms)
- Patalpani waterfall (~35 Kms)
- Annapurna Temple
- Rajwada & Lal Bagh Palace
- Indore Museum
- Pipliyapala Regional park
- Sarafa Bazzar
- Chappan Dukaan
Abstract Submission
As the conference covers broad spectrum of different aspects related to lubricating greases and gear oils, all those related directly or indirectly to manufacturing, research & development, users, additive & equipment suppliers, marketers, manufacturers of other inputs, etc. are invited to participate. Papers on the following topics will be covered in this conference:

Topics
- Grease lubrication
- Base oils / Additive technology
- Manufacture and process development
- Testing and analytical techniques
- Marketing
- Case studies and trouble shooting
- Lubricants for Electric Vehicles
- Energy efficient products
- Environmental issues, legislation, trends
- Packaging Research
- Biodegradable Lubricants
- Tribological Aspects of Grease
- Advances in Equipment Technology
- Disposal of Lubricants
- Gear Oil
- Synthetic Products
- Lubricants for Food Processing Industry
- Girth Gear Lubrication / Lubricants
- Nanotechnology in greases

Engineers, scientists, manufacturers, users of lubricating grease & gear oils and those involved in supplying raw materials, equipment and services to this industry are invited to present papers in the conference. To promote research & development in greases and related areas, NLGI - India Chapter gives away two best paper awards during the conference in the name of Late Mr. P. P. C. Gonsalves, who made an immense contribution to the development of Indian grease industry. A panel of grease experts will scrutinize the papers in terms of technical contents, its suitability for grease industry, style of presentation, etc. The recipient of the best paper award will be considered for nomination to attend and present the selected paper in the next NLGI-USA AGM. This is subject to the acceptance of the paper for presentation by NLGI-USA technical Committee.

Important Dates

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receipt of paper abstract</td>
<td>December 15, 2019</td>
</tr>
<tr>
<td>Receipt of paper manuscript</td>
<td>January 15, 2020</td>
</tr>
<tr>
<td>Receipt of paper presentation</td>
<td>January 20, 2020</td>
</tr>
</tbody>
</table>

Prospective contributors are requested to forward abstract by 15-12-2019 followed by full text of paper and power point presentation by 20-01-2020 to:

Dr. Tarunendr Singh
Deputy General Manager - R&D
Bharat Petroleum Corp. Ltd., R&D Centre
‘A’ Installation, Sewree (East), Mumbai-400 015
Landline: + 91 22 2417 6354 ;+ 91 22 2411 7605
Mobile: + 91 98 694 33580
E-mail: singhtarun@bharatpetroleum.in
# Registration

Registration fees for Indian delegates includes registration fee + 18% Goods & Services Tax (GST).

<table>
<thead>
<tr>
<th>Registration Type</th>
<th>Before 31st December, 2019</th>
<th>After 31st December, 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Delegates</td>
<td>US$ 350 + Bank charges</td>
<td>US$ 500 + Bank charges</td>
</tr>
<tr>
<td>Indian Delegates</td>
<td>INR 11,800</td>
<td>INR 12,980</td>
</tr>
<tr>
<td>Students/Academia/Retired Officers from Public Sector Undertaking</td>
<td>INR 7,080</td>
<td>INR 7,080</td>
</tr>
<tr>
<td>Accompanying Person</td>
<td>INR 7,080</td>
<td>INR 7,080</td>
</tr>
</tbody>
</table>

Note:
1. GST Number: 06AAATN7389M2ZU [GST Number of National Lubricating Grease Institute - India Chapter]
2. All overseas delegates are requested to pay in foreign currency only.
3. Students/Academia/Retired Officers/Accompanying Person will not be eligible for kit bag and kit items.

## Bank Transfers should be made to the following account:

<table>
<thead>
<tr>
<th>Vendor name</th>
<th>National Lubricating Grease Institute - India Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of the Bank</td>
<td>State Bank of India</td>
</tr>
<tr>
<td>Address</td>
<td>IOC Complex, Sector-13, Faridabad-121 007, Haryana, India</td>
</tr>
<tr>
<td>9 Digit Code of the Bank</td>
<td>110002466</td>
</tr>
<tr>
<td>Type of Account</td>
<td>Savings Bank</td>
</tr>
<tr>
<td>Account Number</td>
<td>31030558492</td>
</tr>
<tr>
<td>IFSC Code</td>
<td>SBIN0010449</td>
</tr>
<tr>
<td>Swift Code for Foreign Exchange</td>
<td>SBININBB383</td>
</tr>
<tr>
<td>Year of Opening Account</td>
<td>2010</td>
</tr>
</tbody>
</table>

Please Note:
- Please ensure that the name/s of the participants and conference name (22nd Lubricating Grease Conference) are clearly stated on the bank transfer.
- Bank transfer charges are the responsibility of the payer and should be paid at source in addition to the registration fees.
Accommodation

The Organizing Committee has done block booking of rooms for accommodation at Marriott Hotel Indore, Madhya Pradesh, India.

Special rates Negotiated with Indore Marriott Hotel

<table>
<thead>
<tr>
<th>Room</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Occupancy/ Day</td>
<td>Rs. 5000.00 + Taxes</td>
</tr>
<tr>
<td>Double Occupancy/ Day</td>
<td>Rs. 5500.00 + Taxes</td>
</tr>
</tbody>
</table>

Rooms will be allotted on “First-cum-first-served” basis.

Check-in/ Check-out: 1400 hrs/ 1200 hrs

Note: If you are arriving early at the Hotel for Check-in, then please book the previous dates as Check-in dates, so that you don’t have to wait for 1400 hrs, to get your room.

Exhibition:

An exhibition has also been planned during the conference. Manufacturers, input / additive suppliers, equipment suppliers, marketers and others who wish to promote their business are invited to put up their stall during the conference.

Exhibition Stall Charges:

The details are mentioned below for your reference.

1) The Size of the Stall - 3 mtr X 2 mtr = 6 Sqm
2) Rates of exhibition Stalls for Indian delegates = INR 59,000 per stall (Fee includes rates for Exhibition Stall + 18% Goods & Services Tax (GST))
3) Rates of exhibition Stalls for Foreign delegates = USD 2500 per stall

The above rates for setting up exhibition Stall includes free registration for one delegate. Additional delegate have to pay registration fees as usual. No foreign delegations can be adjusted against Indian category Exhibition Stall.

Business Talk Charges:

Once again board of NLGI - India Chapter has decided to conduct a session on business talk during the conference. Interested Companies / individuals will be given 30 minutes slot for presentation to promote their business interest. INR 88,500 inclusive of 18% GST or US$ 3000 (for foreign companies) which includes free registration for one delegate.
Sponsorship

Like previous conferences, this conference is expected to be sponsored by various reputed organizations from India and abroad.

The following categories have been finalized for sponsoring this event: Sponsorship includes sponsorship amount +18% Goods & Services Tax (GST)

<table>
<thead>
<tr>
<th>Sponsorship</th>
<th>TOTAL AMOUNT IN INR</th>
<th>TOTAL AMOUNT IN USD*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dinner Sponsorship on 1st Feb 2020</td>
<td>5,90,000</td>
<td>12500 + Bank charges</td>
</tr>
<tr>
<td>Dinner Sponsorship on 2nd Feb 2020</td>
<td>5,90,000</td>
<td>12500 + Bank charges</td>
</tr>
<tr>
<td>Kit Bags</td>
<td>5,90,000</td>
<td>12500 + Bank charges</td>
</tr>
<tr>
<td>Lunch Sponsorship (Three)</td>
<td>3,54,000</td>
<td>7500 + Bank charges</td>
</tr>
<tr>
<td>Cultural Program on 1st Feb 2020</td>
<td>3,54,000</td>
<td>7500 + Bank charges</td>
</tr>
<tr>
<td>Cultural Program on 2nd Feb 2020</td>
<td>3,54,000</td>
<td>7500 + Bank charges</td>
</tr>
<tr>
<td>Silver Sponsorship</td>
<td>1,18,000</td>
<td>2500 + Bank charges</td>
</tr>
</tbody>
</table>

* No foreign delegates can be adjusted against Indian category sponsorship.

Sponsorship includes

For Dinner Sponsor / Kit Bags Sponsor
Free registration for four delegates, one page color advertisement in conference souvenir, scrolling display of sponsor logo, complimentary business talk and an exhibition stall

For Lunch / Cultural Program
Free registration for three delegates, one page color advertisement in conference souvenir, scrolling display of sponsor logo and complimentary exhibition stall

For Silver Sponsor
Free registration for two delegates, one page color advertisement in conference souvenir and scrolling display of sponsor logo
Tentative Programme schedule

Kindly note that the conference will start with the inauguration on Saturday, February 1, 2020 and will continue up to Monday, February 3, 2020 till afternoon. The participants are requested to make their travel plan and hotel booking accordingly.

<table>
<thead>
<tr>
<th>Programme</th>
<th>Day 1, Saturday, February 1, 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>0900 hrs - 1600 hrs</td>
<td>Registration</td>
</tr>
<tr>
<td>1600 hrs - 1700 hrs</td>
<td>Inauguration</td>
</tr>
<tr>
<td>1700 hrs - 1730 hrs</td>
<td>High Tea</td>
</tr>
<tr>
<td>1730 hrs - 1830 hrs</td>
<td>Technical Session - I</td>
</tr>
<tr>
<td>1930 hrs - 2200 hrs</td>
<td>Welcome Dinner</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Programme</th>
<th>Day 2, Sunday February 2, 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>0600 hrs - 0700 hrs</td>
<td>Sports / Fun Games</td>
</tr>
<tr>
<td>0900 hrs - 1100 hrs</td>
<td>Technical Session - II</td>
</tr>
<tr>
<td>1100 hrs - 1130 hrs</td>
<td>Tea Break</td>
</tr>
<tr>
<td>1130 hrs - 1300 hrs</td>
<td>Business Talk</td>
</tr>
<tr>
<td>1300 hrs - 1400 hrs</td>
<td>Lunch</td>
</tr>
<tr>
<td>1400 hrs - 1530 hrs</td>
<td>Technical Session - III</td>
</tr>
<tr>
<td>1530 hrs - 1600 hrs</td>
<td>Tea Break</td>
</tr>
<tr>
<td>1600 hrs - 1800 hrs</td>
<td>Technical Session - IV</td>
</tr>
<tr>
<td>1900 hrs - 2100 hrs</td>
<td>Conference Banquet</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Programme</th>
<th>Day 3, Monday, February 3, 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>0500hrs – 0900 hrs</td>
<td>Ujjain Temple Visit</td>
</tr>
<tr>
<td>0900 hrs - 1030 hrs</td>
<td>Technical Session - V</td>
</tr>
<tr>
<td>1030 hrs - 1045 hrs</td>
<td>Tea Break</td>
</tr>
<tr>
<td>1045 hrs - 1215 hrs</td>
<td>Technical Session - VI</td>
</tr>
<tr>
<td>1215 hrs - 1300 hrs</td>
<td>Concluding Session</td>
</tr>
<tr>
<td>1300 hrs - 1345 hrs</td>
<td>Lunch</td>
</tr>
<tr>
<td>1400hrs onwards</td>
<td>Departure</td>
</tr>
</tbody>
</table>

• Exhibition on all the three days
• A one day program for spouses and children of delegates will be conducted on 2nd February 2020
• Visit to Ujjain Temple is planned on 3rd February, 2020 (0500 -0900 hrs), if interested, please send confirmation to organisers.

Details about the conference

Dates: February 1-3, 2020

The Venue

Indore Marriott Hotel
H-2, Scheme No. 54, Meghdoot Garden, Vijay Nagar, Indore, Madhya Pradesh- 452010, INDIA

About the Venue

Indore Marriott Hotel

A world class hotel with all modern amenities, Indore Marriott hotel is approximately 12 Kms from Devi Ahilya Bai Holkar Airport and is at 5 Kms from Indore Railway station.

For further details please contact

Dr. Deepak Saxena
Executive Director (LT)
Indian Oil Corp Ltd.
mobile: +91 9811510663
email: saxenad@indianoil.in

or visit website of NLGI India Chapter at www.nlgi-india.org for the details

For registration & Hotel accommodation, please contact

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Indian Oil Corp Ltd.
mobile: +91 9811510663
email: saxenad@indianoil.in