

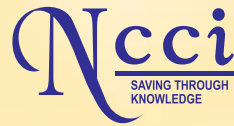
संक्षारण नियंत्रण पर 19^{वां} राष्ट्रीय सम्मेलन
NINETEENTH NATIONAL CONFERENCE ON
CORROSION CONTROL

Nation's Flair through Industrial Care

Date : 05 - 07, December 2018

Venue : MAYFAIR Convention, Bhubaneswar

आयोजक
Organized by



भारतीय राष्ट्रीय संक्षारण परिषद, कारैकुडी
National Corrosion Council of India
Karaikudi

सहयोग

In collaboration with



सीएसआईआर - केंद्रीय विद्युतरसायन अनुसंधान संस्थान, कारैकुडी

CSIR-Central Electrochemical
Research Institute, Karaikudi



IndianOil

इंडियन ऑयल कॉर्पोरेशन लिमिटेड, नोएडा
Indian Oil Corporation Limited
Noida

NINETEENTH NATIONAL CONFERENCE ON CORROSION CONTROL (19th NCCC)

Nineteenth National Conference on Corrosion Control is being organized at Hotel MAYFAIR Convention, Bhubaneswar, during 05 - 07, December, 2018.

Objective

This conference aims to

- ❖ analyze various industrial corrosion problems.
- ❖ provides a platform for interaction among industrialists, scientists and professionals to enhance the state of the art knowledge on “Corrosion Science and Engineering”.

Conference Theme

NCCI provides a forum for the presentation of industrial problems, ideas derived from current research and other topics in corrosion. It presents an excellent opportunity for sharing and dissemination of knowledge and solving industrial problems and promotes budding entrepreneurs.



The focus will be on the following subjects :

Corrosion in Oil & Gas Industry and its control

- ❖ Corrosion in refineries & its control
- ❖ Pipeline corrosion, coating and cathodic protection
- ❖ Corrosion inhibitors for hydrocarbon pipelines
- ❖ Corrosion monitoring in cross country pipelines
- ❖ Corrosion and its mitigation in storage tanks
- ❖ Corrosion of submarine pipelines and its control
- ❖ Corrosion in oil exploration system and its control

Other industries include

- ❖ Transportation: Automobile, Aerospace, Railways, Shipping & Highways
- ❖ Chemical & Fertilizer Plants, Ports, Power Plants, Pulp and paper industry, Steel Plants, Nuclear Plants, Defence, Space, Agriculture & Construction Industries etc.

Corrosion control in Concrete

- ❖ Smart & greener concrete
- ❖ Reinforcement Corrosion
- ❖ Durability aspects of concrete
- ❖ Admixtures for concrete
- ❖ NDT for RCC & PSC structures
- ❖ Maintenance and rehabilitation techniques for existing RCC and PSC structures
- ❖ Greener construction materials

Electrochemical Protection & Biofouling

- ❖ Cathodic and Anodic protection
- ❖ Marine corrosion and microbiologically influenced corrosion (MIC)

Coatings & Linings

- ❖ Pipeline coatings
- ❖ Coatings for process and automobile industries
- ❖ Coatings for solar and wind farms
- ❖ Intelligent and self cleaning coatings
- ❖ Self assembled mono layers

Inhibitors

- ❖ Green inhibitors
- ❖ Inhibitors for industry
- ❖ Cooling water, boiler, automobile radiator, refrigeration brine etc.
- ❖ Inhibitors and biocides for oil & gas pipelines

Advanced Materials & Characterisation

- ❖ Basics of Electrochemistry on corrosion
- ❖ Surface analytical techniques
- ❖ Advances in sensing and monitoring
- ❖ Smart sensors for corrosion monitoring
- ❖ Remote monitoring of structures

Corrosion Management

- ❖ Corrosion audit and design
- ❖ Risk analysis and crisis management
- ❖ Big data and artificial intelligence
- ❖ Modelling and simulation

This conference will involve both invited and contributed presentations from experts and eminent personalities who are working on corrosion and its control.



Scholar session

There will be a separate scholar session to encourage bonafide research scholars.

Guidelines for Submission of Abstracts & Full Text

Delegates planning to attend the 19th National Conference on Corrosion Control have to register through our website : www.nccikkdi.in.

They must upload the abstract and full-text before the dead line.

The abstract should be limited to 300 words. The technical committee will review the abstracts. The selected papers will be classified for oral / poster presentation during the conference. Accepted papers will be published in the conference proceedings.

Awards :

❖ **Best Paper Awards :** An expert committee will evaluate all oral and poster presentations. Awards for the best paper, both oral and poster categories, will be presented during the valedictory function.

❖ **Best Thesis Awards :** Best thesis in Corrosion Science & Engineering submitted for the award of degree, during the academic year 2017–2018:

Category-1: Ph.D. Degree,

Category-2: M. Tech / ME / M.S. Degree.

Award : A Shield, Certificate and a cash award of Rs. 5,000/- for both categories.

❖ **Meritorious award :** Persons having eminent contribution in the field of corrosion science and engineering, monitoring, testing & evaluation of materials, basic research and development can apply.

Award : A Shield, Certificate and a cash award of Rs. 10,000/-.

❖ **Life Time Achievement Award :** A Scientist / Professor / Researcher having more than 25 years of experience may be nominated by an organisation or a professional for his/her contribution in the field of corrosion & its control.

Award : A Shield, Certificate and a cash award of Rs. 15,000/-.

Applicants for the awards (except Life Time Achievement Award) are requested to submit their application on or before 30.10.2018. A high Level Committee will evaluate the applicants based on their patents, process / technology commercialization, publications, quality etc. Applicants for the Life time achievement award must not have received the Meritorious award from NCCI in the preceding 3 years.

Exhibition

An exhibition is being organized concurrently with the conference to provide an opportunity for the manufacturers and consultants to exhibit their products and services and to interact with the participants. A fee of **Rs. 60,000/- + 18% GST** per stall will be charged. Exhibitors will be given a free package of one page (Black & White) advertisement in the Souvenir and nomination of **two delegates**. Stall size of 2m x 2m will be provided for each exhibitor.

Sponsorship

Type	Sponsorship Amount (Rs.) + 18% GST*	Privileges to the Sponsors		
		No. of free delegates	Advertisement in souvenir	Exhibition
Platinum	6,00,000	10	1 full colour page	1 stall
Diamond	4,00,000	6	1 full colour page	1 stall
Gold	3,00,000	4	1 full colour page	-----
Silver	2,00,000	3	1 full colour page	-----

Company Logo on the website, conference & exhibition area



* The sponsorship fee payable to NCCI and GST is payable by the sponsors directly under Reverse Charge Mechanism.

Call for Advertisement :

Advertisement materials are invited for inclusion in the souvenir and the tariffs are as follows:

Advertisement	Black & White (Rs.) + 5% GST	Multi Colour (Rs.) + 5% GST
Full Page	10,000	20,000
Half Page	5,000	10,000

Registration Fees :

Rs. 7,000/= for each Delegate

Rs. 4,000/= for Bonafide Research Students ONLY
(not for faculty & others conducting Research)

Important Dates :

Submission of Abstracts : 15.10.2018

Submission of the full text of paper : 30.10.2018

National Corrosion Council of India, Karaikudi

National Corrosion Council of India (NCCI), a non-profit organisation, is serving as a forum for effective dissemination of knowledge on corrosion and its control. NCCI is functioning in CSIR-CECRI premises since 1990 and also collaborates with other focal bodies on research and development in the field of Corrosion Science and Engineering in the country. NCCI organizes the National Conference on Corrosion Control periodically, covering all aspects of Corrosion Science and Engineering at important places, for enlightening and increasing the awareness on corrosion of metals and appropriate remedial measures. There has been overwhelming responses from various sectors for the earlier 18 conferences held at Karaikudi, Kolkata, Bangalore, Mumbai, Chennai, New Delhi, Hyderabad, Kochi, Goa, Madurai, Vadodara, Visakhapatnam and Mangalore.

CSIR-Central Electrochemical Research Institute (CECRI), Karaikudi

CSIR-CECRI is one of the pioneer research organisation belonging to CSIR and is the largest electrochemical laboratory in the world, engaged in Research & Development in all the facets of electrochemical science and technology. CSIR-CECRI covers a gamut of fields including

Corrosion and Material Protection, Electrochemical Power Sources, Electroplating and Metal Finishing, Materials Electrochemistry, Electrodeics and Electrocatalysis, Process Engineering and Electro-Organic.

CSIR-CECRI assists the Indian industry by conducting surveys and undertaking sponsored and consultancy projects. The institute also conducts short-term refresher courses for the benefit of the industry and academia. As part of its human resource development programme, CSIR-CECRI runs Anna University's B.Tech course in Chemical & Electrochemical Engineering. Researchers from this part of the country make good use of the excellent library as well as the state-of-the-art analytical and characterization facilities at the institute. CSIR-CECRI also organizes national and international conferences for dissemination of

scientific knowledge. CSIR-CECRI is alive to societal obligations and participates in activities such as entrepreneur development and CSIR's youth development programme. CSIR-CECRI is a recipient of several technology awards for its telling service to the Indian industries.

Payment :

Registration fee can be paid by:

- ❖ NEFT
- ❖ Demand Draft drawn in favour of "The Chairman, NCCI", payable at Karaikudi.
- ❖ Deposit in Indian Bank, to the account of NCCI.

If amount is deposited in Indian Bank account of NCCI, scanned copy of the counterfoil must be e-mailed to nccikkdi@gmail.com

Bank details of NCCI account :

Account Name : National Corrosion Council of India (NCCI)
 Account Number : 530837171
 Bank Name : Indian Bank
 IFSC CODE : IDIB000A008
 Branch : Alagappa College Campus
 Address : Alagappapuram, Karaikudi 630 003
 PAN No. : AABTN8677M
 IT URN : Registered u/s 12 AA IT Act 1961
 AABTN8677M/05/17-18/T-0248



IndianOil Corporation Limited, Noida

Indian Oil Corporation Ltd., (IndianOil) is India's flagship National Oil company with business interests straddling the entire hydrocarbons value chain - from refining, pipeline transportation and marketing of petroleum products, to exploration & production of oil and gas, marketing of natural gas, petrochemicals etc., It has presence in downstream operations, is emerging as a technology provider and is scaling up presence in the alternative energy space such as Biofuels, Wind Power and Solar Energy. A Maharatna enterprise, IndianOil is India's top corporate with Rank 137 in the latest Fortune 500 Global listing for 2018 jumping incredible 31 slots from 168 in 2017.

IndianOil is India's Largest Commercial Enterprise and the most profitable Central Public Sector Enterprise, with a sales turnover of ₹ **5,06,248 crore** and a net profit of ₹ **21,346 crore** for the financial year 2017-18. In accordance with its corporate vision of being 'The Energy of India', IndianOil has been successfully meeting the energy demands of India for more than five decades.

IndianOil is the leading refiner of India which owns and operates 11 of India's 23 refineries and its 80.07 million metric tonnes per annum refining capacity is 35% of the national refining capacity. Its pan-India network of pipelines, largest in the country (49% share) spans nearly 13,400 km and efficiently transports crude oil and petroleum products in a safe, economical and eco-friendly way.

Being The Energy of India with the largest customer interface in India, IndianOil has the onerous task of reaching precious petroleum fuels to every nook and corner of the country through its network of over 48,000 customer touch-points, surmounting the challenges of tough terrain, climate and accessibility. This includes 27,000+ fuel stations, including over 7,000 Kisan Seva Kendra (KSK) outlets in rural markets

IndianOil's Indane brand of LPG cooking gas serves over 12 crore households through over 10,000 distributors. Its 107 aviation fuel stations together refuel over 1,750 flights a day i.e. more than one flight per minute. Indian Oil's Petrochemical business is the 2nd largest in the country and its PROPEL brand of petrochemicals are now exported to 75 countries.

A Globally Admired Company, IndianOil, was declared as Leader in the Downstream Category at the Platt's Global Energy Award-2017. This global recognition is often compared to the Oscar Awards. Its successful downstream forays in Sri Lanka, Mauritius and UAE and its recent entry into Nepal, Bangladesh, Myanmar heralds its emergence as global player. IndianOil's prowess in terms of successfully running 11 diverse refineries and our ability to process close to 200 types of crude oil also is recognised widely in the industry both in India & abroad. IndianOil's state-of-the-art refinery at Paradip was hailed as Vikasdeep by Shri Narendra Modi, Hon'ble Prime Minister of India. Today, as it is running full steam and as it is progressively integrated with petrochemicals complex it is proving to be gateway to prosperity and development in the states of eastern India. Recently, HE Dr. Mohammed Barkindo, Secretary General, OPEC fulfilled his long cherished dream by making a pilgrimage tour to IndianOil's iconic Digboi refinery which is the world's oldest operating refinery and located in the historic town where the oil industry was born in India. IndianOil's R&D Centre, one of the finest in Asia, is being expanded to boost its research prowess beyond lubes & refining technology; to areas like biofuels, nano-technology and battery storage among other horizon technologies.

As the leading refiner in the country and a dominant player across a diverse portfolio of offerings in energy, IndianOil is focussing on all emerging opportunities for organic and inorganic growth through vertical integration and strategic diversification, besides pursuing value-creating research areas. As part of this, projects costing approx. Rs. 32,000 crore are in various stages of execution and plans are underway for implementing more projects costing about Rs. 1.43 lakh crore in the next five years. Driven by the growing demand for POL products, IndianOil has ambitious plans to almost double its current installed group refining capacity of 80.7 Million Metric Tons Per Annum (MMTPA) to about 150MMTPA by the year 2030. This includes green field refineries of IndianOil subsidiary Chennai Petroleum Corporation Ltd. (CPCL) and the proposed Ratnagiri Refinery & Petrochemicals Ltd.(RRPCL), apart from numerous brown field expansions. RRPCL is proposed to be developed as the world's largest integrated green field refinery-cum-petrochemicals complex. It will be built by an Indian consortium consisting of IndianOil, BPCL and HPCL along with Saudi Aramco and ADNOC. Several pipeline projects with a combined capital expenditure of over Rs. 20,000 crore are under implementation. Upon completion, IndianOil's pipeline network would expand to about 20,000 km in length. A 69-km pipeline is also being laid to transport petroleum products to Nepal.

IndianOil has been one of the early investors in renewable energy sources in the country and today boasts of 200 MW portfolio of wind and Solar Capacity, which is being further expanded rapidly. IndianOil is the industry leader in converting the retail network to run on Solar Energy with more than one third of its fuel stations already running on solar energy and rest to follow soon. Indian Oil is determinedly working to reduce its specific carbon and water footprints by 18% and 20% respectively by the year 2020.



Pipelines Division

Cross-country pipelines are globally recognised as the safest, cost-effective, energy-efficient and environment-friendly mode for transportation of crude oil and petroleum products. With such inherent advantages, IndianOil's 13400 km long cross-country pipelines network has been serving as the backbone of its refining and marketing operations, adding to their overall efficiency and productivity. IndianOil's countrywide network of crude oil, liquid and gas pipelines, translating to 71 % downstream sector pipelines share, has been its major strength in reaching out to new markets and customers in a safe and eco-friendly manner and sustaining its competitive advantage as the least-cost supplier. IndianOil's network of cross-country pipelines carrying crude oil and petroleum products now spans ~13,400 km with a cumulative throughput capacity of 94.20 MMTPA (crude and product pipelines) and 9.5 MMSCMD (gas pipeline). With a total capital outlay of Rs. 20,000 crore, IndianOil's pipeline network would expand to about 20,000 km in length, capacity of liquid pipelines to about 118 MMTPA and that of gas pipelines to 62.71 MMSCMD.

IndianOil has translated the expertise of its personnel in pipeline operations into a business opportunity by offering training and consultancy to several Indian and overseas companies.

South Eastern Region Pipelines (SERPL) with Head office at Bhubaneswar is the newest and youngest region carved out recently making it the fifth region in Pipelines Division. SERPL is presently operating cross-country pipeline network of crude oil, refined product & LPG of length 1570 km and capacity of 19.35 MMTPA. Under this region, Indian Oil is having the biggest and largest Crude oil handling facility at Paradip with 3 nos. of single point mooring system (SPM) having capacity of 37 MMTPA installed in deep sea at a distance of 21 km from sea shore. This is feeding to country's four most important refineries namely Paradip, Haldia, Barauni and Bongaigaon. The crude oil storage capacity at Paradip consists of 20 nos. of tanks having capacity of 60000 Kilo Litres each making it largest tankfarm in Eastern India.

As a future expansion plans under SERPL, laying works for Paradip-Hyderabad pipeline of 1212 kms with capacity of 4.5 MMTPA is in progress. Pre-construction works for Paradip - Dhamra - Haldia LNG pipeline of 360 km is also under progress.

Supporters of the 18th National Congress on Corrosion Control held at Hotel Green Park, Chennai



For further details please contact :

The Chairman

National Corrosion Council of India (NCCI)
CSIR-Central Electrochemical Research Institute,
Karaikudi 630 003 . Tamilnadu, India

Phone : 04565-241380, 241381, 241373
Mobile : 9486483924, 9487749809, 9442814547
Fax : 04565 - 227779
Email : nccikkdi@gmail.com
Website : www.nccikkdi.in