

Report On
CORCON 2012- Corrosion Conference and Expo
26th – 29th Sept 2012 at Hotel Grand Hyatt, Goa

NACE International Gateway India Section (NIGIS) organized “CORCON 2012” International Conference and Expo during 26th – 29th Sept 2012 at Hotel Grand Hyatt, Goa. CORCON 2012 provided an excellent opportunity for exchange of information on matters concerning corrosion problems and solutions. It provided an excellent networking platform for interaction amongst experts, academicians, professionals from large PSUs or Governmental agencies and the private industries.

Around 550 delegates attended the conference, including 55 from overseas. In order to encourage participation of young students, NIGIS waived the registration fees and paid for accommodation for all presenting authors in student category.

The conference started with a very high note for expanding the horizons of corrosion studies. On the morning of 26th September, a workshop, “Research Techniques in Corrosion”, was organized by Student Chapter of NIGIS.

On the evening of 26th, the conference was inaugurated by CMD of ONGC. The inaugural function was also attended by Patron-in-Chief Dr. Srikumar Banerjee, Former Chairman Atomic Energy Commission & Secretary Dept. of Atomic Energy, Govt. of India along with Mr. Kevin Garrity, President NACE International. The other present on dais were Mr. Bob Chalker, Executive Director NACE International; Mr. Tushar Jhaveri, Vice President NACE International, Mr. K L Batra, Chairman NIGIS & Chairman CORCON 2011 and Dr. Samir Degan, Area Director, NACE International, East Asia and Pacific Area; Mr Anand Kulkarni, Treasurer and Head Technical Committee CORCON 2012; Mr. Michelle Lau, Area Chair, East Asia and Pacific Area; Mr. Astley Pung, Manager, East Asia and Pacific Area and Mr. R. Radhakrishnan, Secretary, NIGIS.

In the inaugural address the chief guest Mr. Sudhir Vasudeva talked about corrosion issues in upstream oil & gas industry and necessity more research for enabling production in high temperature, high pressure and sour conditions. He mentioned about the corrosion challenges in deepwater oil & gas production. He expressed that collaborative efforts among users and research institutes can play a big role in advancement of corrosion control and monitoring. He congratulated NACE India section for organizing CORCON 2012 which provided an excellent opportunity for sharing knowledge and experiences related to the science of corrosion and the technologies to control it.

Oil and Natural Gas Corporation Limited and GAIL (India) Limited were Platinum Sponsors of the conference. In addition, there were 32 gold and silver sponsors of the event. 27 companies exhibited their products and services. The main highlights of CORCON-2012 were Technical symposia for the presentation of technical papers including keynote talks, Open sessions for discussions of corrosion related issues, Talks by eminent scientists and professionals, Expo for display of products and services, and Celebration of Corrosion Awareness Day and presentation of 18th Corrosion Awareness Awards - 2012 (an annual event) to individuals and organizations for their contributions in the field of corrosion and its control.

The following brain storming Key Note Talks energized thought process level of all the delegates:

- “Corrosion and its Control in Nuclear Power Reactors”, by Dr. Srikumar Banerjee, DAE Homi Bhabha Chair Professor, BARC and Former Chairman, AEC
- “Corrosion and Punishment”, by Kevin Garrity, President, NACE International
- “Aging Offshore Oil and Gas Infrastructure – Effective Management of Subsea Corrosion”, by Jim Britton, Deepwater Corrosion , USA
- “Operating Windows for the Safe Use of Titanium and Zirconium in Corrosive Environments”, by Brian J. Saldanha, DuET Materials Engineering, USA

- “Biological and Chemical Reactions within DWDS that Determine Drinking Water Quality”, by T. L. Gerke, University of Cincinnati, USA
- “Anti-Corrosion Measures Concerning Spent Fuel Pools of Fukushima Daiichi Nuclear Power Plant after the Accident”, by Yutaka Watanabe, Graduate School of Engineering, Tohoku University, Japan
- “AC interference – contemporary issues, Henrik Rosenberg and Lars Vendelbo Nielsen”, by Balslev Consulting Engineers A/S, Denmark
- “MIC and Inhibitors”, by Rolf Gubner, Curtin University, Australia
- “Proactive Pipeline Integrity Management: Safety, Reliability and Economic Benefits Realized at an Indian Producing Offshore and Onshore Asset”, by Patrick J. Teevens, Broadsword Corrosion Engineering Ltd, Canada

The technical topics covered in the symposia of the conference were on Cathodic Protection, Corrosion Inhibitors & MIC, Corrosion Research in Progress, Corrosion Testing, Monitoring & Inspection, Failure Analysis, Materials & Composites, Protective Coatings, Paints & Linings and RCC and Infrastructure which provided an unique opportunity to upgrade and improve the participants knowledge about the subject with comprehensive information on protection of assets from the menace of corrosion.

22 Technical Symposia comprised on technical lectures. 2 Plenary talks, 7 Keynote Addresses, 11 Invited Lectures, 111 Contributory Oral Papers and 22 poster presentations. At the sidelines of the conference there was a good technical interaction between experts in the fields and the delegates on various corrosion problems faced by them. Six Technical Interactive Sessions were held on the issues of NACE International TCC Activities, Electric Power Plants and Utilities, Industrial Water Treatment, Corrosion Monitoring, Regulations & Standards in Pipeline Industry and Cathodic Protection: Specific issues for pipelines.

NIGIS presented Corrosion Awareness Awards every year to Scientists, Engineers and Professionals to recognize their contributions in corrosion science and technology which were distributed during the CORCON-2012. The awards were distributed by H.E. Bharat Vir Wanchoo, Governor of Goa. The award winners were honoured by His Excellency. The winners were:

For Excellence in Corrosion Science & Technology in Research & Education:	Raghuvir Singh,
Excellence in Corrosion Science & Technology in Oil & Gas:	Bhupendra Gaur
Distinction in Corrosion Science & Technology in Industrial Organisation:	Dr. Deepashri D. Nage
Distinction in Corrosion Science & Technology in Research & Education:	Dr. Supratik Roychowdhury
Student Award for PhD Degree:	Dr. Swati Ghosh
Student Award for PhD Degree:	Dr. Kamlesh Chandra
Student Award for MTech Degree:	Rajan Bhambroo

The Life Time Achievement Award was awarded to most deserving candidate and who was none other than Mr. Rajan Bahri. He has relentlessly and insistenty fighting for the cause of fight against corrosion since 1994 by way of organizing this event. He has held the office of Chairman and Trustee of NIGIS in the past.

A cultural bonanza was organized on 28th September to mentally rejuvenate the delegates for the next and last day's technical proceedings. The event presented trip to India through dance, drama and songs.

On the last day, 30th September, best technical oral and poster papers, best stalls at the expo were honoured and winners of these awards were:

Technical Session	Paper and Author
Paint Coating and Lining:	NACE SPO198 and Corrosion Prevention Under Insulation. Michael McLampy, Hi-Temp Coatings Technology, Inc., USA.
Offshore Corrosion:	Offshore Coating Maintenance - Cost Affect by Choice of New Building Specification and Ability of The Applicator. Nis-Peter Taekker and Soeren Nyborg Rasmussen, Hempel A/S, Denmark.
Materials and Composites:	The Stress-Corrosion Cracking Susceptibility of Alloy IMI 834 at 350°C. Mangesh D Pustode and V S Raja, IIT Bombay And Neeta Paulose, GTRE, Bangalore.
Failure Analysis:	Investigation into The Incidence of Delayed Catastrophic Cracking in Low Nickel Austenitic Stainless Steel Coils. S Srikanth, P Saravanan and K Ravi, SAIL, Ranchi and S, Sisodia, Salem Steel Plant, Salem.
RCC and Infrastructure:	Early Detection of Corrosion in RC Structures Using EMI Technique. Talakokula Visalakshi and Suresh Bhalla, IIT New Delhi.
Electric Power Plants and Utilities:	Effect of Surface Finishing Operations on High Temperature Oxidation behaviour of Alloy 800. Geogy J. Abraham, Sunil Kumar B and Vivekanand Kain, BARC, Mumbai and Kushal Singla, PEC University Of Technology, Chandigarh.
Cathodic Protection:	Wireless and Remote Monitoring of PSP I.E. Cathodic Protection Thru CTSU Data Loggers. Manoj Kumar Chauhan, HPCL, Gujarat.
Inspecting and Testing:	Steps Taken for Mitigation of Corrosion Under Insulation (CUI) at Haldia Refinery. S. K. De, Debashis Dutta, Kaushik Boral and Bhaskar Sharma, IOCL, Haldia Refinery, Haldia.
MIC and Inhibitors:	Microbiologically Influenced Corrosion in Gas Compression Plants Operating in Lakwa, Geleki and Rudrasagar Oil Fields of Assam Asset of ONGC and its Control. Veena Kothe, ONGC, Panvel and V Banerjee, ONGC Academy, Dehradun
Student Session:	Effect of Incorporation of Surface Treated Zinc Oxide on Corrosion Protection of Non-Isocyanate Polyurethane Coatings. Mukesh Kathalewar, Nilesh Shinde, Dr. Anagha Sabnis, ICT, Mumbai.

The following posters were awarded:

Winner	High Temperature Oxidation of NiCrAlY Coatings in Presence of Air and Vanadium Salts with Special Reference to Formation of Alumina. Nidhi Rana, R.Jayaganthan and Satya Prakash, Indian Institute of Technology Roorkee.
1st Runner up	Active Nano Zinc Oxide Coating on Titanium for Bio-fouling Resistance in Sea Water. K R Rasmi and U Kamachi Mudali, IGCAR Kalpakkam.
2nd Runner up	Corrosion Protection by Multilayered Zn-Ni-ZrO ₂ Coating. Yathish Ullal and A Chitharanjan Hegde, National Institute of Technology Karnataka Surathkal.

The following exhibition stalls were adjudged as best in various categories:

12 Sqm – Winner	3M India Ltd.
12 Sqm – Runner	West Coast Polychem Pvt. Ltd.
9 Sqm – Winner	Airblast Equipment India Pvt Ltd
9 Sqm – Runner	Honeywell Process Solutions India

The efforts of Mr. K.L. Batra, Chairman, Organizing Committee, CORCON 2012, Mr Anand Kulkarni, Head Technical Committee, Mr. Manohar Rao, Mr. Radhakrishnan and Mr. Dipen Zhaveri were lauded by one and all for their superb efforts in making this conference and expo a grand success.

Mr. Kevin C. Garrity, P.E. , NACE International President 2012-2013 commented, "The technical content, the pageantry, the fellowship and the camaraderie was really unparalleled in our industry".

The conference ended with a gigantic round of applause for the entire organizing committee and governing board of NIGIS, with special mention of NIGIS administration and staff, viz. Manoj Mishra, Manager - Administration, Rishikesh Mishra, Manager – Technical Services , Anita D' Souza, Executive and Kim Shah, Manager - Conference & Training course who always put their best effort whether it is conference or training.

The dates and venue of next Conference, CORCON 2013, were announced as 30th September – 3rd October, 2013 at New Delhi.



Glimpses of CORCON 2012



Mr. K L Batra, Chairman, CORCON 2012 lighting the lamp to inaugurate the conference.



Dr. Srikumar Banerjee, Former Chairman, AECI inaugurating the CORCON 2012 exhibition.



Mr. Sudhir Vasudeva, CMD, ONGC addressing the delegates during his inaugural address



H.E. Bharat Vir Wanchoo, Governor of Goa visiting the exhibition premises of the conference.



Dignitaries in the Dias releasing the CORCON 2012 Souvenir



Delegates during the inauguration session

Glimpses of CORCON 2012



Jim Britton President & CEO, Deepwater Corrosion Services Inc delivering Keynote address



Panel Members during Technical Interactive open Discussions



17th NIGIS Lifetime Achievement Award being presented to Mr. Rajan Bahri by H.E. Bharat Vir Wanchoo, Governor of Goa



Mr. V G Kulkarni, Founder Trustee, NACE India Section felicitating the sponsors



Cultural programme during the conference



Certificates for best paper awards being presented by Mr. Kevin C. Garrity, President, NACE International during valedictory function