The 8th International Stainless Steel Conference (Nov. 6-8, 2005, New Delhi) organized by CRU EVENTS in association with ISSDA and supported by Jindal Stainless Ltd cast a magic spell among the audience. The 370 registered delegates comprised of a galaxy of stars from the international stainless steel community and India. The distinguished speakers shared their thoughts and stimulated some lively discussions. The social occasions gave every one the opportunity to catch up with old friends and also make new ones.

Mr Prithviraj Chavan, Minister of State in the Prime Minister’s Office, Dr Mano Ranjan, Secretary, Ministry of Steel, Mr Ratan Jindal, Vice Chairman & Managing Director, Jindal Stainless Ltd, Mr N C Mathur, President, ISSDA and Mr Robert Perlman, Chairman, CRU Group were among those who spoke during the inaugural session.

This is for the first time that CRU held their stainless steel conference outside Europe. All participants, especially those from overseas carried back lasting memories of the powerful speeches and the social events.

ISSDA and CRU EVENTS convey their sincere thanks to all sponsoring organizations.
Mr Ratan Jindal (right) presenting a bouquet to Mr Prithviraj Chavan.

Mr N C Mathur (left) presenting a bouquet to Dr Mano Ranjan.

Mr Robert Perlman

Dr Mano Ranjan (left) presenting a memento to Mr Hanish Malhotra, son of Mr Ashok Malhotra, Past President, ISSDA.

Mr Prithviraj Chavan (left) presenting a memento to Mr Niraj Bajaj, Past President, ISSDA.

A view of the audience.
November 7, 2005
WELCOME BY THE CHAIRMAN
Peter Kaumanns, ISSF

KEYNOTE ADDRESS – TRENDS AND CHALLENGES FOR STAINLESS STEEL
Pekka Erkkilä, Outokumpu Oyj

GLOBAL OUTLOOK FOR STAINLESS STEEL FLAT PRODUCTS – A MARKET IN TRANSITION
Vanessa Davidson, CRU Analysis

November 8, 2005 continued
STAINLESS STEEL USE IN SOUTHERN AFRICA
Dr Oliver F.R.A. Damm, SASSDA

CHINESE STAINLESS STEEL MARKET
Gautam Varma, BHP Billiton

THE ITALIAN MARKET – LEADING SECTORS FOR FURTHER GROWTH IN STAINLESS STEEL USAGE
Dr Salvatore Pinizzotto, Xida Market Research

DEVELOPMENT EFFORTS IN SAIL FOR STAINLESS STEEL PRODUCTS WITH STRINGENT REQUIREMENTS
Dr Santanu Ray, Steel Authority of India Limited, RDCIS

INDIAN MARKET – EVOLUTION & PROSPECTS
Mrinmoy Roy, Steel Authority of India Limited, Salem Steel Plant

CHARACTERISTICS & APPLICATIONS OF CHROME-MANGANESE STAINLESS STEELS
Dr LK Singhal, Jindal Stainless Ltd

SERVICING A STAINLESS FUTURE
S S Virdi, Jindal Stainless Steelway Ltd

GLOBAL STAINLESS STEEL RECYCLING
Al Goodman, ELG Haniel Group

STAINLESS STEEL – A MANUFACTURER’S PERSPECTIVE
Beat Waldmeier, Franke Group

CONCEPT DEVELOPMENT & WHAT AUTOMOTIVE INDUSTRIES CAN DO TO STEER TOWARDS SUCCESS
Roland Gustafsson, Volvo Technology Corp

PROSPECTS FOR GROWTH OF STAINLESS STEEL IN INDIAN METROS
Y K Gururaja, Bharat Earth Movers Ltd

November 8, 2005
Chairman: N C Mathur, JSL
KEYNOTE ADDRESS – NEW MARKETS
Pascal Payet-Gaspard, Arcelor Stainless International
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**AN OUTLOOK ON FERROCHROME**
Abdumalik Mirakhmedov, ENR Ferroalloys

**THE NICKEL SUPPLY CHALLENGE**
Marja Kirves, Falconbridge Ltd

**MANAGING NICKEL PRICE RISK IN STAINLESS STEEL**
Philip Tomlinson, CRU Strategies

**HOUSE WARES: DRIVERS FOR THE APPLICATION OF STAINLESS STEEL**
Gaetano Ronchi, IKEA Trading SA

**EVOLUTION IN EUROPEAN DISTRIBUTION: BACK TO BASICS**
Joaquim Boixareu, Irestal Group

**KEYNOTE ADDRESS – MAKING THE FUTURE WORK WITH NICKEL**
Dr Ivor Kirman, Nickel Institute

*The group that visited the JSL plant at Hissar.*
The Nickel Institute (formerly NiDi) was the inspiration behind the formation of ISSDA. NI has continued to provide strong technical and manpower support to ISSDA since 1988. Above, from left to right are, Ramesh Gopal, NI’s General Manager and Executive Director of ISSDA; Dr. Ivor Kirman, President, NI, who presented a paper at the conference; Mr. Barry Waters, NI’s Group Director, Nickel Use Support and Development.

The group that visited the Taj.
Bird droppings indeed create a mess and have known to be disastrous to newly painted buildings. A nightmare for builders, architects and house owners where every design for aesthetic appeal needs to be reviewed due to bird droppings. For factories where birds create a havoc leading to direct monetary losses, it is the worst site to have a nest or group of them visiting the site regularly. Bird droppings are acidic and can cause permanent damage to stone and painted metals. Also, the diseases they spread includes breathing and skin disorders. It may be good luck in a few cultures to have a bird dropping on your shoulder, but surely nobody likes it. We definitely want to get rid of them from perching and poaching in our homes and outside, without causing any harm to them.

Finally, a solution is offered for the first time in India with years of success in USA and Europe.

**Bird-Edge ™ - Preventing Bird Menace Worldwide**

Bird-Edge™ is the most effective and the only permanent cure to do away from birds perching and poaching. It is a specially designed product of polycarbonate base (with UV Filters) with stainless steel spikes or completely plastic. It is glued with a very powerful adhesive to concrete / metal / wood / stone / glass and any other surface. These spikes prevent the birds to sit on the surface installed. It is extremely uncomfortable and hurts the bird. The spikes do not kill nor injure the bird but just pokes them so they do not sit on it. Birds have a good memory and the presence of the spikes prevents them from visiting the same place again. It is a very simple and effective theory; however a very specially designed product.

Since image and hygiene are very important and conservation of structures is given high importance, it has become more or less obvious to install these spikes in most leading buildings. Bird-Edge ™ boldly offers the following assurances:

1) No more bird droppings. This product is designed in such a way that it is not noticeable from a distance. Also, up close, it appears very neat and interesting to look at.
2) It is not dangerous for humans, animals and birds.
3) Visitors and on-lookers will admire the product and appreciate the efforts taken to maintain the building.
4) The user will thank his decision to install this product that saves him time and money for keeping his building aesthetically beautiful. It makes him feel “clean”.
5) The user will get his money’s worth. The product works with zero maintenance.

The products are assured for the life of the building. It has been successfully installed in various locations where the applications have been on trusses, ledges, air conditioners, lighting equipment, awnings etc. To name a few areas of use in Mumbai, they have been installed in heritage buildings (The Prince of Wales Museum), private office buildings (Neelkamal Plastics) shopping malls (CR2), recreation facilities (The Club), hotels (Holiday Inn), residential buildings (Hiranandani Builders) and many others, where bird droppings have completely been prevented / eradicated with full satisfaction.

The cost of the product is negligible as compared to the savings due to the avoidance of repeated painting and less frequent cleaning regimen. The place looks like new. With a product as successful as this, it appears to be the obvious choice for most, who want a cleaner and healthier surrounding.

For further details, please contact: AUSTENITIC STEELS PVT LTD, 801, Bombay Market Building, Tardeo Road, Mumbai – 400 034; Tel: 022-5662 7333; Fax: 022-5662 7393; Email: sswire@vsnl.net; Contact Person: Mr Parikshit Vaid
Portable kits for rapid tests on stainless steel

The first possible test is the check of the passive state of stainless steel surfaces.

The essential feature of these materials which gives them the well known resistance to corrosion is the formation, on the surface, of a thin and transparent oxide layer, called passive film.

By means of proper reagents it is therefore possible to verify whether the passive film is in the ideal condition to protect the material underneath.

This happens making a particular substance react with the surface of the stainless steel component for at least one minute, then absorbing the drop with a filter paper and adding on it another reagent. According to the colour taken by the paper it is possible to determine whether stainless steel is passive or not.

Another important check that sometimes is required is to find out the possible presence of molybdenum so as to distinguish AISI 304 from AISI 316. In this case too, easy tests with proper reagents makes it possible to distinguish between the two grades.

An alternative testing method consists of using electrochemical reagents. Finally, again with electrochemical systems, by means of a new reagent, which is sensitive to manganese, it is possible to distinguish AISI 200 series austenitic stainless steels from AISI 300 series austenitic ones.

Information courtesy: Centro Inox (the Italian Stainless Steel Development Association), Web: www.centroinox.it

Test kits distributed by: NDT Italiana Srl – Via del Lavoro 28 – I-20049 Concorezzo MI; Tel: +39 039 647590; Fax + 39 039 647799; Email: info@ndt.it; Web: www.ndt.it

Figure 1 – Results of a test where the presence of molybdenum is revealed by chemical reagents.
Figure 2 – Results of a test where the same purpose is achieved by an electrochemical method.
Figure 3 – Example of electrochemical test.

National Quality Award for Salem Steel Plant

Salem Steel Plant (SSP), a special steels unit of Steel Authority of India Limited (SAIL), has won the National Quality Award 2005 from the Indian Institute of Metals in the Pig Iron/DR Unit/Major Re-rolling mill category. Mr P M Balasubramanian, General Manager (Works), SSP, received the award on behalf of the plant from Dr Mano Ranjan, Secretary, Ministry of Steel, at the National Metallurgists’ Day function held at Chennai on Nov. 14, 2005. The award was given to SSP for its image of quality and implementation of Quality Management System.

Information courtesy: Salem Steel Plant, SAIL, Salem – 636 013, Tamil Nadu.

Mr P M Balasubramanian, (left) receiving the award from Dr Mano Ranjan.
NOIDA lab chooses stainless steel

Stainless steel tops made of 316 grade have been installed in various laboratories of National Institute of Biologicals, Sector – 62, NOIDA. About 3000 kg of SS 316 grade material have been used. These SS tops were chosen due to their high corrosion resistance to various chemicals and gases used in labs, and for their cleanability and aesthetics.

Designs and Planning were by M/s Zimmer Gunsul Frasca Partnership, Portland, Seattle, Los Angeles, USA. Stainless steel fabrication by: SIMPLE ENTERPRISES, 6604 / 2, Nabi Karim, Qutab Road, Pahar Ganj, New Delhi – 110 055. Tel: 011-2351 8520; Fax: 011-2361 5450. E-mail: info@simple.co.in.

Welcoming New Members

Twenty First Century Wire Rods Ltd
The promoters of the group have been in steel Industry since 1983. Mr Vinod M Goel, Chairman had started his business at the age of 25 as a manufacturer of alloy steels, and had set up a steel melting unit at Taloja near Navi Mumbai. With hard work and his dedicated efforts, the business grew in leaps and bounds. With the list of satisfied customers Twenty First Century started ship breaking business in 1987. Twenty First Century has set up its own sponge iron production of 300 MT daily. Now the company has entered into manufacturing stainless steel of 304, 410, 420 & 431 grades through AOD process. Twenty First Century Steel is a mini steel plant in India producing stainless steel, mild steel, alloy steel and sponge iron. The steel plant of Twenty First Century has a complex configuration consisting of computerised process controls, and argon oxygen decarburisation technology to manufacture speciality steels, including stainless steel. The company has three units spread out at Goa and Silvassa for manufacturing mild steel and stainless steel having an aggregate production facility of 1,14,000 MTPA; the company is currently manufacturing 81,000 MTPA. Twenty First Century has a turnover exceeding Rs 100 crores a year (US $ 25 Million). Twenty First Century’s leadership in steel technology is built on a long history of pioneering, kept alive by its ever modern facilities and processes, adaptive absorption of advanced technologies and sustained in-house research & development.

TWENTY FIRST CENTURY WIRE RODS LTD,
501, Garden View, 5th floor, Gulmohar Park, Gulmohar Road, Juhu, Mumbai - 400 049; Tel: 022-5606 2076, 2671 6968 / 6951; Fax: 022-2628 3871; E-mail: twentyfirst@vsnl.net; Web: www.21stcenturysteel.com

Batliwala Process Engineering
Batliwala Process Engineering is a company with over 30 years of experience in the steel fabrication business. Engaged in manufacturing of stainless steel products, the Batliwalas have given a new meaning to the utility of steel. With the passage of time, newer dimensions have evolved. To cater to industrial and commercial requirements simultaneously, BPE offers its specialised services through: B-rails which is a specialized service in the latest technology and design in railings; B-Steel which is lifestyle accessories in steel, enhancing form and function in residences and office alike. Batliwala Process Engineering, 720/5, Opp. Sadani Dhabi Bus Stop, Narol-Vatva Road, Vatva, Ahmedabad - 382 440. Tel : 079-2571 2573; Fax : 079-2573 0611. E-mail: info@batliwala.com; Web: www.batliwala.com

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Hindustan Hydraulics Pvt Ltd

Hindustan Hydraulics was founded in 1965 by Mr. M.M.S Khosla. HHPL is one of the largest single unit in India manufacturing the widest range of high technology sheet metal working machines like CNC / NC Hydraulic Press Brakes, CNC / NC Shearing machine & CNC Hydraulic Punch Presses in a wide range. HHPL has provided Indian industry with a steady stream of innovative, productivity enhancing sheet metal machines since its inception.

HHPL is exporting a large number of machines to various countries such as AUSTRALIA, GERMANY, MALAYSIA, DUBAI, SINGAPORE, KOREA, SPAIN, and TAIWAN. HHPL has undertaken over 376 installations of CNC Press Brakes, 345 installations of NC Hydraulic Shearing machines and 26 installations of CNC Hydraulic Punch Presses.

HHPL has satisfactory installations with major companies such as L&T, CROMPTON, BLUE STAR, RITTAL, TELCO, JCB, LMW, HITACHI, CARRIER, ELGI, BHEL, VEHICLE FACTORY JABALPUR, DGNP VISHAKHAPATNAM. In the Railways the company has various installations through COFMOW. The company serves markets like aerospace, air conditioning, visi- cooler, job shop, bottling plant, construction equipment, packing machine, control panel, bus body builder and various sheet metal working centers. The company’s organizational strength and its resources, as a leading engineering organization, has proved to be of lasting benefit to its customers.

HHPL’s machines are manufactured as per latest DIN / ISO standards, with internationally followed accuracies. HHPL has the latest state of art manufacturing facilities with over 17 CNC, UMC/ HMC/ Boring machines. Engineers with through knowledge provide assistance in selection of the equipment and fixing the most appropriate specifications and tooling solutions. In addition they also help the customers in installation, testing and commissioning of the equipment supplied. The system-engineering departments consisting of a number of specialists to introduce better production technologies by suggesting improvements on their existing machine and also by suggesting the installation of better equipment. HHPL’s products have been greatly appreciated and its staff are working to the entire satisfaction of the customers.

HINDUSTAN HYDRAULICS PVT LTD, G T Road, Suranussi, Jalandhar 144 027, Punjab; Tel: 0181-267 0054 / 55 / 56; Fax: 0181-267 0053; Email: hhpl_sales@vsnl.net
Web : www.hindustanhydraulics.com

CRU-ISSDA Conference Presentations on CD

CRU-ISSDA conference PowerPoint presentations are available in a CD for organizations in India. Each CD is priced at Rs 1,000/- including packing and forwarding charges. For obtaining a CD, please send payment favouring Indian Stainless Steel Development Association, payable at Delhi to : ISSDA, K-36 (FF), Hauz Khas Enclave, New Delhi – 110 016; Fax: 011-2686 3376; Email: nissda@gmail.com. (Please give your postal address)
Kapasi Inc.
Kapasi Inc., with years of experience in serving OEM markets with new technology assembly solutions, stock and offer a comprehensive range of specialised imported PROCESS CONTROL FASTENERS AND RIVETS especially for SS FABRICATION AND ASSEMBLIES, which drastically increase productivity by reducing labour time, welding, secondary processes, consumables. The products are competitively priced to serve the total requirements from the conception of design to the end-product. The company’s portfolio of products coupled with the expertise of hi-end fastener manufacturers from different countries like, USA, UK, Germany, Australia, Singapore, Spain, Italy etc enables the end-user to specify and source its products with confidence for the user’s engineering equipment / products / assemblies. The company’s basket of products are cold forged and are of hi-strength, and are well designed and properly selected to provide cost-saving solutions to sheet-metal assembly and fabrication and improving the quality of the end product with aesthetics and engineering excellence. As a team of engineers, the company helps its customers solve difficult application problems and offers hi-tech fasteners and rivets which can be installed within seconds - its tech-team is always ready to assist with practical solutions and new concepts in sheet-metal joining and assemblies through value engineered fasteners and rivets.

KAPASI INC., No.28, Thangam Mahal, 1st Floor, S.P. Road, Bangalore – 560 002
E-mail: kapfast@vsnl.com; Tel: 080-2221 0997, 2227 9217, 5124 3735;
Fax: 080-2221 0997; Web: www.weldless-fastenings.com for detailed product descriptions, animated demos, printable tech-specs, advantages, applications etc...

Kuma Stainless Tubes Ltd
Kuma Stainless Tubes Ltd is an Indo-Japanese Joint Venture. Incorporated in the year 2003 in Gurgaon for manufacturing of high-quality high frequency induction welded precision stainless steel and aluminized tubes, Kuma today is equipped with latest state-of-the-art technology of tube mill from the world’s leading manufacturer – Kusakabe Electric and Machinery Company Limited, Japan with an installed capacity to produce 20,000 tons per annum. Kuma manufactures stainless steel tubes in different grades and aluminium coated mild steel tubes. The company has got a comprehensive size range, for various industrial applications like automotive exhausts, to heat exchanger industry, with outer diameter ranging from 20.00 mm to 65.00 mm and thickness ranging from 1.00 mm to 3.00 mm. Tubes are manufactured to Japanese, American and customer specification. Stainless tubes find application in various industries like Automotive Exhaust, Petrochemicals, Heat Exchangers, Furniture and Decorative industry.

KUMA STAINLESS TUBES LTD,
Plot No. 27, Sector 2 A, IMT Manesar, Gurgaon 122 050,
Haryana;
Tel: 0124-395 3662, 394 4823;
Fax: 0124-221 5335;
E-mail: haresh@kumatubes.com;
Web: www.kumatubes.com
In the Ahmedabad airport building approximate 100 columns and walls are clad using AISI 304 sheets in 2B hairline finish. Approximately 7 tonnes of stainless steel were used for this purpose. Almost all the columns are of the size 1 m x 1 m square with cladding extending up to 725 mm. Each column is divided into eight parts for the purpose of cladding. The four corners are of vertical hair line finish and the middle portions are in horizontal hairline finish. This results in a 'different' look!

The purpose of the cladding is to eliminate the column damage caused by baggage trolleys.

The main contractor of the project was M/s M S Khurana Eng. Ltd and the stainless steel cladding and other works were done by M/s Geeta Industries, Ahmedabad. The stainless steel sheets were supplied by Jindal Stainless Ltd.

Contact details of the stainless steel fabricator:
Mr Haresh Panchal / Mr Ramesh Panchal, GEETA INDUSTRIES, 4 NTM Compound, CTM Cross Road, Amravati, Ahmedabad – 380 026;
Cell: 0-98258 52710, 0-94265 16678;
Tel: 079-2585 4627, 2539 0036;
Fax: 079-2585 2926;
E-mail: aadeshenterprise@yahoo.com
Conference yields a harvest of new Members for ISSDA

Several thousand announcements of the 8th International Stainless Steel Conference were distributed far and wide to those interested in the stainless steel industry. This has resulted in a sizeable increase in new membership enrolment. This can be seen from the fact that between September and November 2005, 14 new members joined ISSDA and more are on the way.

The annual membership count is done in September every year, just ahead of the Annual General Meeting.