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ISSF-22 Annual Conference in Shanghai

Safety Awards

The ISSF has a Safety Awards Programme which invites members to submit good ideas from their Safety Programmes. All submissions are circulated among other members, following the simple premise that everyone can learn from the mistakes or accidents of others. The winners have the benefit of peer recognition and a Certificate which can be used in their own publications. Everyone who submits an entry is recognised by having their entry included in the ISSF Annual Safety Awards Report, which is circulated to all members and published on the ISSF extranet.

[Click here](#)



Mr Lucien Matthews of Columbus Stainless receiving the Gold Safety Award from Dr. Edwin Basson

Gold Award: Columbus Stainless won an Award for introducing specially designed Ladders that improved safety at the weigh bridge gate

Silver Award: Aperam won an Award for their Health and Safety Mind Set Change programme
Bronze Award: Outokumpu won an Award for their SafeStart Safety Initiative

Sustainability Awards

Where it was once sufficient to show you did not discharge hazardous waste to water air or land; and to show you recycled and used recycled scrap; and to show you measured your CO2 emissions; now the scope of sustainability is widening year by year.

This is a non-competitive issue and one where bench-marking against best in field practices is surely beneficial for the industry as a whole. It is important to show the public and the local, regional and central governments that we represent an industry which is determined to do whatever is practically possible to sustain the environment.

To provide a platform from which best practices can be circulated, and to inspire deeper thought about these issues, the ISSF surveys its membership every year about best practices in Sustainability and publishes the results, so that all members can learn from one another. To encourage participation, Awards are presented to the top three entries selected by a team of eight judges. These Awards have value, because they are a recognition of excellence in this field, and



Camilla Kaplin of Outokumpu receiving the Gold Sustainability Award from Dr. Edwin Basson

the Certificates may be used in promotional literature.

Gold Award: Outokumpu received the Gold Award for the material efficiency, cost and environmental improvements

through pelletising light scrap

Silver Award: Columbus Stainless won the Silver Award for their Water Recovery Programme

Bronze Award: Nippon Yakin Kogyo won the Bronze Award for reducing packing material waste

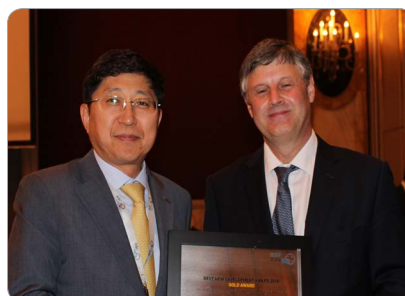
We congratulate all the winners. All entries have been published on the ISSF extranet. [Click here.](#)

New Applications Awards

To encourage market development, and to provide inspiration for new ideas, we present Awards at our Annual Conference for the Best New Applications for Stainless Steel in two categories: Best New Technology and Best New Development. The range of entries has varied widely, giving a good spread of ideas for other members. The purpose of these Awards is not

only to reward excellence in individual company achievements but also to increase market development by adding to the pool of creative new ideas. Particularly exciting this year has been the focus on new automotive applications; water conservation ideas and an interesting new concept for architectural design.

Best Technology Award



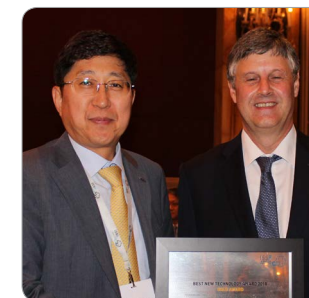
Mr Bae Jae Tak of POSCO receiving the Gold Best Technology Award from Dr. Edwin Basson

core

Bronze Award: was presented to Aichi Steel for their development of hydrogen fueling receptacle in the Toyota Mirai fuel cell vehicle.

Gold Award: Gold Award: was presented to POSCO for their non-coated stainless steel bipolar plates
Silver Award: was presented to Outokumpu for the weldable sandwich with a 3D-profiled

Best Development Award



Mr Bae Jae Tak of POSCO and Mr Hitoshi Ito receiving the Gold Best Development Award from Dr. Edwin Basson

Gold Award: POSCO for the stainless steel lined reservoir and Nippon Steel and Sumikin Stainless Corporation for the water supply tank in Yonago
Silver Award: Columbus Stainless for the solar drier

Bronze Award: POSCO for the development of PossFD for refrigerant piping and Nippon Steel and Sumikin Stainless Corporation for the flap gate type seawall against flood disaster
Full details of the winning entries as well as all other entries have been published in a new Brochure entitled "The New Applications Awards - 2018" which is available on the ISSF Website. [Click here.](#)



CO₂ Certificates

The ISSF presents certificates were also presented to recognise the cooperation of those members who reply to our the annual CO₂ surveys, in order to encourage wider participation. The following companies have received their certificates at the Annual Conference in Shanghai:

- Acerinox
- North American Stainless
- Columbus Stainless
- Aperam Stainless
- Aperam South America
- ArcelorMittal Industeel
- Böllinghaus Steel
- Cogne Acciai Speciali
- Deutsche Edelstahlwerke
- Hyundai BNG Steel
- Outokumpu
- POSCO
- SeAH Changwon Integrated Special Steel Corp.
- POSCO Thainox
- SIJ Slovenian Steel Group
- Nisshin Steel
- NSSC
- Nippon Yakin Kogyo
- Ugitech S.A.

ISSF Board 2018 - 2019

The following people were elected to the Board of ISSF:

- **Bernardo Velázquez (Acerinox)**
- **Timoteo Di Maulo (Aperam)**
- **Shi Guo Min (Baosteel)**
- Lucien Matthews (Columbus Stainless)
- Takeshi Ishiguro (Daido Steel)
- Shuichiro Hayashi (JFE)
- **Hitoshi Ito (NSSC)**
- Kinya Yanagawa (Nisshin Steel)
- Cristobal Fuentes (North American Stainless)
- **Roeland Baan (Outokumpu)**
- **Oh, In-Hwan (POSCO)**
- **Clemens Iller (Schmolz+Bickenbach)**
- **Xiang Guangda (Tsingshan Group)**
- **John Rowe (ISSF)**
- Dr. Edwin Basson (World Steel Association - ex officio)

The Board members marked in bold were also elected to the ISSF Executive and the ISSF Nominating Committees.

Presentations to the ISSF-22 Open Panel Session

The four Presentations that were made to the Open Panel Session can be downloaded from the conference folder on the ISSF Extranet. [Click here.](#)

Presentations to the ISSF-22 Committee Meetings

The Presentations that were made to the Committee Meetings in Shanghai have also been made available on the ISSF Extranet, with the following links:

- [Economics and Statistics Committee](#)
- [Health, Safety and Environment Committee](#)
- [Long Products Committee](#)
- [Market Development Committee](#)
- [Raw Materials Committee](#)

The Minutes of the Meetings have been circulated to members and published on the Extranet.

Stainless Steel Development Associations Workshop

On Monday 21 and Tuesday 22 May 7 Stainless Steel Development Associations (SSDAs) met in



Participants to the SSDA Workshop

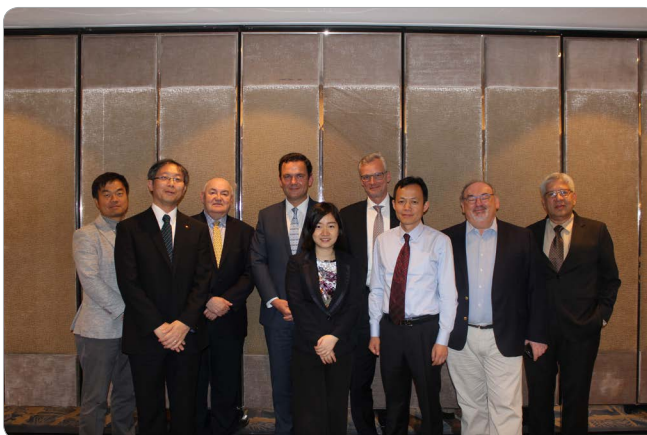
Shanghai to discuss matters of common interest. They were joined by participants of ICDA, IMOA and the Nickel Institute. This year, the following topics were discussed:

- Success Stories
- Life Cycle Cost Calculations
- Education
- Structural Applications
- Water
- GDPR



Participants to the SSDA Workshop inspect the stainless steel corrugated pipe system

All of the presentations and the summary report can be found on the ISSF Extranet. [Click here](#).



Participants at the Economics and Statistics Committee Meeting

Economics and Statistics Committee

Chairman: Daniel Azpitarte (Acerinox) on behalf of Shi Guo Min (Baosteel)

The Economics & Statistics Committee Meeting covered many interesting insights and discussions. Stainless steel consumption is expected to increase by 6.0% in 2018 and by 5.0% in 2019. No significant stock changes are expected for the period under review. A Presentation on Stainless Steel in China was given by a professional analyst from 51bxg which provided interesting insights. Preliminary figures for Melt Shop Production changed only slightly in 2017

Stainless Steel in Figures

The latest edition of the popular statistical summary, Stainless Steel in Figures was published and is available on the extranet with an abbreviated version on the website. Members are asked to keep the contents of the extranet version confidential. It may be downloaded in [English](#) and [Chinese](#).

Health, Safety and Environment Committee

Chairman: Camilla Kaplin
(Outokumpu)



Participants to the Health, Safety and Environment Committee Meeting

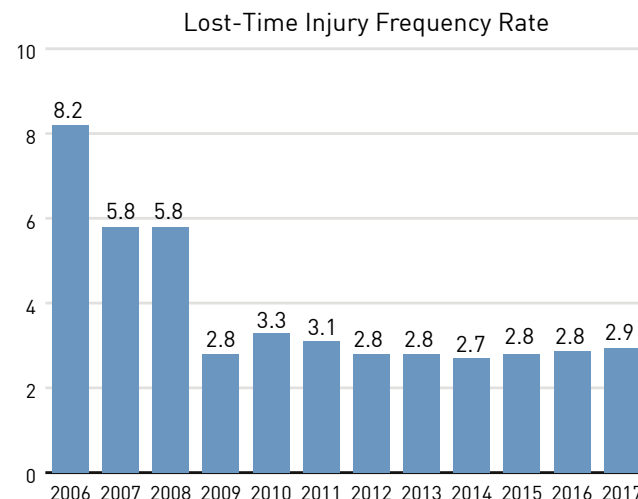
Safety

The Annual Safety Survey was completed using 2017 data. 24 replies had been received. The full report is available from the ISSF Extranet. [Click here.](#)

Andy Purvis, Director Safety, Health and

Lost Time Injuries

Number of Lost Time Injuries: 384; LTIFR: 2.93



Environment at worldsteel, presented a report on The Annual Safety Day and on Process Safety Incidents.

CO₂ Data Collection

The CO₂ emissions were 2.91 metric tons per ton of stainless steel which remains very stable. Andy Purvis from worldsteel explained how the International Energy Agency have developed industry roadmaps, identifying priority actions for governments, industry, financial partners and civil society that will advance technology development to achieve international climate change goals. A project has been launched to deliver a roadmap

for the Iron and Steel Industry by the end of 2018. Direct emissions from the steel industry including stainless steel represent 7-9% of the global total. Steel is now more CO₂ efficient than ever before.

Cobalt

An interim decision was reached at the CARACAL and REACH Committee Meetings last week in terms of which they agreed to use the Generic Concentration Limit in Annexure VI (0.1%) instead of the Specific Concentration Limit of 0.01% which had been proposed and to establish an Expert Group to review the scientific findings.

We will discuss this outcome in more detail, the next steps among the interested industry associations. It will be crucial to be convincing towards the expert group in order to sustain this decision.

Limitation of Cr IV and Cr III

In 2017 the American Conference of Governmental Industrial Hygienists (ACGIH), published a report proposing new workplace limits for Cr VI and Cr III. Joe Green, Special Counsel for SSINA, mentioned that ACGIH is a non-governmental and non-regulatory body. The report indicated a revision of the limitation of Cr III compounds, from 500 µg/m³ (micrograms per cubic meter) to 3 µg/m³. For Cr IV compounds, the revision was from 50 µg/m³ to 0.2 µg/m³. The International Chromium Development Association

will commission a scientific review with support from the ISSF.

All Presentations from the meeting can be found on the ISSF Extranet.

[Click here.](#)

Raw Materials Committee

**Chairman: Lucien Matthews,
Columbus Stainless**

The Committee received Presentations from the following speakers:

- Dr. Nicole Kinsman, IMOA
- Philippe Richard, ICDA
- Mark Beveridge, CRU Group
- Christian Jessen, Cronimet
- John Rowe, ISSF

Their Presentations can be downloaded from the ISSF Extranet. [Click here.](#)



Participants to the Raw Materials Committee Meeting

Market Development Committee

**Chairman: Olli-Matti Saksi,
Outokumpu**

A specialist from POSCO, Dr. Kim, Young-Hwan made a Presentation on Market Development with Stainless Steel replacing competing materials. Dr. Roland Nolte, a specialist from Outokumpu made a Presentation about three Technical Market Development areas that have the potential to expand the market for stainless steel in the automotive sector and transport, architecture and energy and infrastructure.

Their presentations are available from the ISSF Extranet. [Click here.](#)

Project reports



Participants to the Market Development Committee Meeting

The ISSF Fellows reported on the present projects, including Water Pipes, Automotive, Fire Equipment and Architecture. All reports can be downloaded from the ISSF Extranet. [Click here.](#)

Stainless Steel in Architectural Applications



Volume 4 in the Series of Brochures on Stainless Steel in Architecture was published at the Conference and has been posted on the Extranet This publication shows just a few of the

recent examples. It can be downloaded [here](#). Previous versions are available from the website also: [Click here](#).

A Workable, Lasting Solution for Water Losses through Leaking Water Pipes

Water loss through leaking water pipes is a problem for cities all over the world. Some of them are losing water at upwards 40% per year, and this is all water which has already been

treated. A recent study by the OECD has shown that it is not only the under developed or even the developing cities that are so affected – even the capital cities of major economies are losing far

more water than is sustainable or even viable. The International Stainless Steel Forum (ISSF)



has published a brochure which reports their research into the service pipe lines in the cities of Tokyo, Seoul and Taipei. All three cities are using stainless steel corrugated pipes for transporting potable water from the water mains to the interior of the building.

Changing their pipes to stainless steel has saved significant volumes of treated water. This booklet tells the story of how this was accomplished so other cities and communities may also consider using stainless steel pipes in order to reduce leaking pipes and to save precious water.

This brochure is available from the ISSF website in several languages. [Click here](#). More information and communication material can be obtained from the ISSF staff.

Long Products Committee

Chairman: Thierry Crémilh, Schmolz+Bickenbach

The meeting started with a reviewed the past of 10 years of the work of the Long Products Committee.

Education project

The revised version of the Education Project was published in December 2017 and it remains one of the most popular items on the ISSF website. The modules can be downloaded in several languages. [Click here](#).

Project reports

Reports were made on the currently on-going



Participants to the Long Products Committee Meeting

projects, Stainless Steel in Power to Gas, Stainless Steel in Micro-Turbines and an LCC ID Card for Stainless Steel.

All project reports are available from the ISSF

Extranet. [Click here.](#)

Martensitic Stainless Steels



Martensitic stainless steels have an excellent strength to weight ratio, strong resistance to corrosion, a good hardness and a wide range of applications, of which the best known are

probably knife steels, which are capable of holding a sharp edge.

To provide the right environment for further growth of this range of materials it was necessary to research existing and potential applications, to provide a technical introduction to the material and testimonials from existing producers who have used the material and can talk with authority about its value.

We recommend this brochure to producers, stockists and end-users, with the hope that they will find it a helpful tool for their own market development activities. [Click here](#) for downloading this brochure.

ISSF Annual Report



The ISSF Annual Report, which is the primary report-back publication of the ISSF, highlighting the activities in the past year, has been published on the ISSF Extranet. It can be downloaded [here](#).

Welcome Mr Mitsuo Ikeda



The ISSF is pleased and proud to welcome Mitsuo Ikeda to the team. Mr Ikeda has been seconded to us from Nippon Steel and Sumikin Stainless Corporation for 2 years until May 2020. He is our first Fellow from NSSC, and

we hope he will be the first of many.

Mr Ikeda will be responsible for coordinating the Market Development Projects at the ISSF. He can be contacted at ikeda@issf.org.

List of the ISSF Meetings scheduled for 2018 and 2019

Tokyo October 2018

Wednesday 17 October 2018

Economics and Statistics Committee
Health, Safety and Environment Committee
Raw Materials Committee

Thursday 18 October 2018

Market Development Committee
Long Products Committee
Extraordinary Executive Committee Meeting
ISSF Board Meeting



ISSF-23 Chicago 2019

Monday 20 May 2019

SSDA Workshop

Tuesday 21 May 2019

SSDA Workshop
Health, Safety and Environment Committee
Economics and Statistics Committee
Raw Materials Committee

Wednesday 22 May 2019

Market Development Committee
Long Products Committee
Annual General Meeting of Members
Board Meeting

Thursday 23 May 2019

Open Panel Session

Friday 24 May 2019

Plant tour to North American Stainless

New Orleans October 2019

Wednesday 16 October 2019

Economics and Statistics Committee
Health, Safety and Environment Committee
Raw Materials Committee

Thursday 17 October 2019

Market Development Committee
Long Products Committee
ISSF Board Meeting