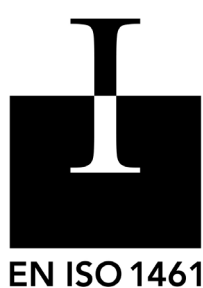




EGGA ANNUAL REPORT 2016/2017



EN ISO 1461



CONTENTS

PRESIDENTS' MESSAGE	3
MEMBERSHIP AND ORGANISATION	4
Governance	4
EGGA Staff	5
New Staff	5
PARTNERSHIPS AND LIAISONS	6
Partner	6
Current Activity Link	6
Collaboration with steel industry	6
Industrial Strategy	6
Worldwide connections	6
Political Representation	6
COMMUNICATIONS	7
EGGA Assembly 2016 – Sevilla	7
EGGA Extranet and Internal Communications	7
EGGA E-Library	7
Social Media and E-Marketing	7
EGGA Web Sites	7
MARKETING	8
Environmental Product Declaration	8
Graphic Symbol for Batch Galvanizing	8
Competitive Threats	8
Exchanging information on opportunities	9
Market Statistics	9
Intergalva Video Clips	9
Global Galvanizing Awards	9
TECHNICAL AND RESEARCH	10
CEN and ECISS Liaison	10
International Galvanizing Standards	10
ISO Corrosion Standards	10
Galvanized reinforcement for concrete	10
Steel Design and Fabrication Standards	10
Slip Resistant Connections	11
Fire Resistance	11
ENVIRONMENT AND SAFETY	12
Plant level – BREF Revision	12
Zinc and Water Regulation	12
Construction Products Regulation - Environmental Aspects	12
Materials in Contact with Drinking Water	12
REACH and Substance Regulation	13
INTERGALVA 2018	14
Planning and financial	14
Promotion	14
Exhibition and Sponsorship	14
National Associations	15

PRESIDENTS' MESSAGE

As I reach the end of my 3-year term as EGGA President, I can reflect with satisfaction on a period of intense activity and continued evolution for the European General Galvanizers Association.

The early part of my Presidency coincided with some difficult times for the industry, including plant closures and falling production volumes in many parts of Europe. I am pleased that the situation now appears to have stabilised in those countries that suffered a downturn and that many parts of the industry are in good health. Things seem to be 'on the up'.

The need for additional effort to ensure the continued prosperity of the European general galvanizing industry was the main driver for the 'EGGA 2020' strategy that was initially developed under the previous Presidency of Arnaud Zedet. The finalisation and implementation of that strategy has given a strong focus to EGGA's development over the past 3 years.



We have now completed the first important steps of 'EGGA 2020' – reorganising our staff structure, reducing core costs and making some adjustments to financial allocations around Intergalva events. This has allowed us to add one new full-time Technical Executive to our staff. This has been achieved with no increase in rates of subscriptions paid by National Associations. This is just the first step – I look forward to the further development of EGGA and its staff to meet the growing demands and opportunities that we have in front of us. I am also pleased that our new staff, Kimberley Warner and Vasile Rus, have also brought a wider European culture to the EGGA staff – in terms of language, nationality and location.

Of course, part of this re-organisation included the retirement of EGGA's most loyal and much-appreciated employee, Frances Holmes, who left the EGGA staff during this period. I want to take this opportunity to record my personal appreciation for all her work over 40 years with EGGA.

EGGA relies heavily on the success of the Intergalva events for both financial stability and our connections with the worldwide industry. Intergalva 2015, held in Liverpool, was another major step in reinforcing the event as the most important worldwide forum for our industry. The exhibition grew to a scale not seen before; new concepts such as interactive workshops and more informal social events were combined with the more well-established features such as the very memorable dinner in Liverpool Cathedral. My colleagues on the board and the staff of the Galvanizers Association were immensely proud of Intergalva 2015 and the foundations it has laid for Intergalva 2018 in Berlin. I hope that our colleagues in Germany will build further on this success!

This is the first 'annual report' that we have published in this format. I hope you find it useful. I expect you will be surprised at the wide range of marketing, technical, research and environmental activities that the industry pursues under the EGGA umbrella. These activities are often led by the EGGA staff, but many activities rely on the valuable commitment and participation of staff of National Associations and committee members from across the industry. Many thanks to all who contribute to the work of EGGA. I am sure this collaboration will continue to flourish under the leadership of our next EGGA President, Martin Kopf.

A stylized, handwritten signature in blue ink, consisting of several loops and a long horizontal stroke at the end.

Jeremy Woolridge
President, European General Galvanizers Association

MEMBERSHIP AND ORGANISATION

The European General Galvanizers Association is the federation of the national galvanizers associations within Europe. EGGA's 15 member associations represent the industry in 22 European countries that include over 600 general galvanizing plants.

EGGA is delighted that Poland (Polskie Towarzystwo Cynkownicze) have recently entered membership and that the industry in Poland now plays an active role within EGGA.

- Fachverband Metalltechnische Industrie
- Zinkinfo Benelux
- Bulgarian Galvanizers Association
- Asociace českých a slovenských zinkoven (AČSZ)
- Galvazinc
- Industrieverband Feuerverzinken
- Hellenic Galvanizing Association
- Hungarian Hot Dip Galvanizers Organization
- Associazione Italiana Zincatura (AIZ)
- Nordic Galvanizers
- Polskie Towarzystwo Cynkownicze (PTC)
- Asociația Națională a Zincatorilor (ANAZ)
- Asociación Técnica Española de Galvanización (ATEG)
- Genel Galvanizciler Derneği (GALDER)
- Galvanizers Association

The achievements set out in this Annual Report are the outcome of the collective actions of national association staff and committee members that support the work of the EGGA staff.

EGGA's Associate Members are suppliers of plant, equipment, process chemicals and other services to the industry. Through their worldwide networks, these companies also act as key partners in the organisation and promotion of the Intergalva series of events

- Rezinal nv
- C. H. Evensen Industriovner AS
- Scheffer Krantechnik GmbH
- Gimeco Impianti Srl
- W Pilling GmbH & Co KG
- Ingenia GmbH
- IMR Metal Powder Technologies GmbH
- Western Technologies (Europe) Ltd
- Koerner Chemieanlagenbau GmbH
- Hasco-Thermic Ltd

Governance

EGGA's Board of Directors is elected from the nominated representatives of its National Association members. The Board of Directors is chaired by the EGGA President who is normally elected for a 3-year term.

EGGA's Board of Directors (as at April 2017):

J F Woolridge (UK) – President
A Zedet (France) – Vice President
M Kopf (Austria) – Vice President
G de Kwaasteniet (Benelux)
B E Carlsson (Nordic Countries)
P Niederstein (Germany)
C Garcia De Lucas (Spain)
M Lesay (Czech/Slovak Republics)
C Ricciolino (Italy)

M Kopf has been nominated as EGGA President for the period 2017-2020.

EGGA Committees

EGGA operates 3 functional committees of industry representatives nominated by National Associations.

Environmental and Safety

Chair: Annikki Hirn, Nordic Countries



Technical and Research

Chair: Lello Pernice, Italy



Marketing

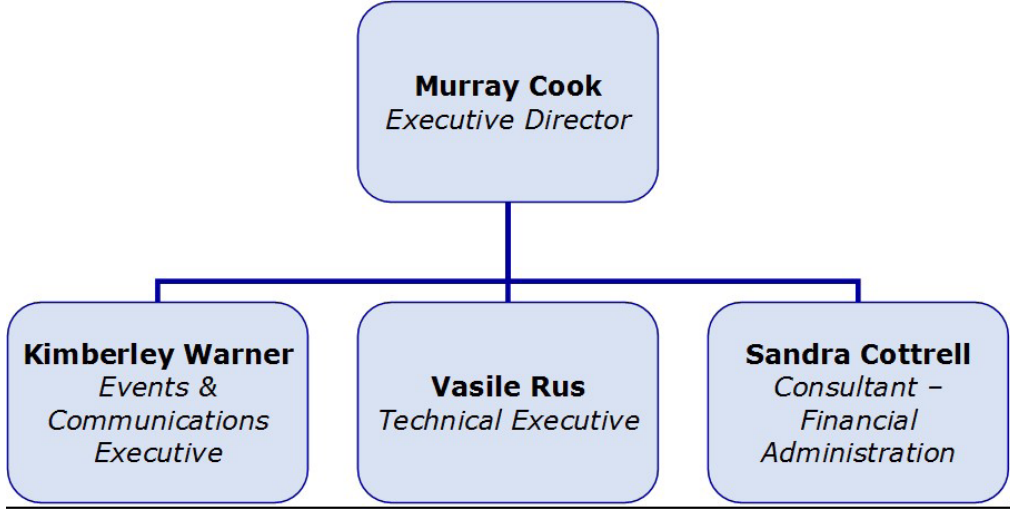
Chair: Holger Glinde, Germany



Meetings of the committees and Board of Directors were held on 13/14 April 2016 (Brussels); 23/24 November 2016 (Krakow) and 4/5 April 2017 (Amsterdam).

Much of EGGA's work is delivered by specific working groups set up by committees and dedicated to particular topics. In 2016/2017, the following working groups have been active:

- Standards Working Group
- BREF Revision Working Group
- ISO 1461 Symbol Working Group
- ZM Steels Working Group
- Wind Energy Working Group



New Staff



Kimberley Warner joined the EGGA staff in March 2016, replacing Ewelina Trzeciak. Kimberley’s main focus is the organisation of Intergalva 2018 and EGGA’s Assemblies.

Her duties also cover all aspects of internal and external communications, including support for EGGA’s work with the European Parliament and other advocacy work. Kimberley speaks English and German.



Dr Vasile Rus was appointed as Technical Executive in February 2017 as part of the implementation of the ‘EGGA 2020’ plan. Vasile has a PhD in Materials Engineering and has previous experience in the Romanian Galvanizers Association and as a galvanizing plant manager in Romania.

His duties include a range of technical, research and standardisation issues to support all three EGGA committees. Vasile is based at an office at the Technical University Cluj-Napoca, Romania. Vasile speaks Romanian, English and French.

It is planned to add a further EGGA staff person – to support the ‘EGGA 2020’ plan – during the second half of 2017.

PARTNERSHIPS AND LIAISONS

EGGA maximises its impact by working very closely with other associations and organisations – in particular those related to construction products, steel or zinc.

For example, EGGA works very closely with ECCS on matters related to steel construction and with IZA's Brussels office on zinc environmental issues.

We have a stronger voice when we work with other organisations and develop common positions.

Partner	Current Activity Link
CEN European Committee for Iron and Steel (ECISS) ISO	<ul style="list-style-type: none"> Standardisation for steel products, galvanizing, corrosion, sustainability assessment and CE marking
International Zinc Association	<ul style="list-style-type: none"> Zinc environmental issues Interface with Eurometaux LCA and Sustainability
ILZSG	<ul style="list-style-type: none"> Statistical studies for zinc
European Convention for Constructional Steelwork (ECCS)	<ul style="list-style-type: none"> Steel fabrication standards Sustainability
European Steel Producers Association (Eurofer)	<ul style="list-style-type: none"> BREF Revision Regulatory issues for steel products and coatings
Metal for Buildings Alliance	<ul style="list-style-type: none"> LCA and Sustainability for metals used in construction
Construction Products Europe	<ul style="list-style-type: none"> Regulatory issues for the internal market in construction projects

Collaboration with steel industry

EGGA's membership of the European Convention for Constructional Steelwork (ECCS) provides important connections to the industry's customers and ensures EGGA is aware of new developments in the sector. EGGA is a regular participant to three ECCS Technical Committees:

ECCS TC9 'Manufacturing and erection standards'

ECCS TC14 'Sustainability and Eco-efficiency of Steel Construction'

ECCS TC16 'Wind Energy Supporting Structures'

EGGA recently participated in an ECCS workshop on surface protection of steel structures that will result in

a new ECCS Technical Committee on Surface Protection (TC4) to be launched in 2017.

EGGA maintained a continued close cooperation with steel producers through both Eurofer and Worldsteel organisations.



EGGA's participation in ECCS TC16 'Wind Energy Supporting Structures' has revealed promising developments in use of bolted lattice-type hybrid constructions that are suitable for galvanizing. These hybrid towers are attracting new interest as towers are required in excess of 120m height.

Industrial Strategy

EGGA has recently participated in a new initiative to lobby for a more ambitious industrial strategy for Europe. The initiative, led by UNIFE (the European rail industry organisation), has mobilised over 100 associations with interests in the strength of Europe's industrial and manufacturing sector to secure that the European Commission will:



- reaffirm its commitment to reaching the target of 20% of GDP from industry, with an ambitious and realistic timeline;
- adopt an Action Plan to tackle the challenges that the industrial sectors are facing, in the framework of a Communication that would include concrete steps and milestones; and
- commit to implement this Action Plan in a timely manner and regularly report on progress

Worldwide connections

EGGA maintains an ongoing dialogue on topics of common interest with other galvanizing industry associations – in particular with American Galvanizers Association, Galvanizers Association of Australia, Japan Galvanizers Association, ICZ Brazil and the Hot Dip Galvanizers Association of Southern Africa.

Political Representation

Building on the success of the event held in November 2015, Kimberley Warner is working with IZA's parliamentary communications consultant (Maria Kokkinou-Boege) and Paul Rübig MEP to prepare an EGGA Briefing Day and Lunch in the European Parliament on 28 November 2017. National Associations have been exploring their contacts with MEPs at national level and it is hoped that the 2017 event will be co-hosted by several MEPs with connections to the industry.

COMMUNICATIONS

EGGA Assembly 2016 – Sevilla

Over 170 delegates from 24 countries attended EGGA Assembly 2016 in Sevilla, 6-9 June 2016 to hear the latest developments in Europe’s batch hot dip galvanizing industry. The event was held in conjunction with the Spanish national association (ATEG) and delegates visited Spanish galvanizing plants operated by ATEG members.



Conference sessions covered market applications, process technology, regulatory issues and commercial aspects of the industry. Panel discussions on (i) market research into attitudes and motivations of coating specifiers and (ii) future demand from the solar power industry stimulated much debate amongst delegates. A detailed explanation of the ongoing revision of the EC BREF note for Ferrous Metal Processing and its importance in defining future environmental controls for galvanizing plants was given by the EU JRC-IPPC Bureau.



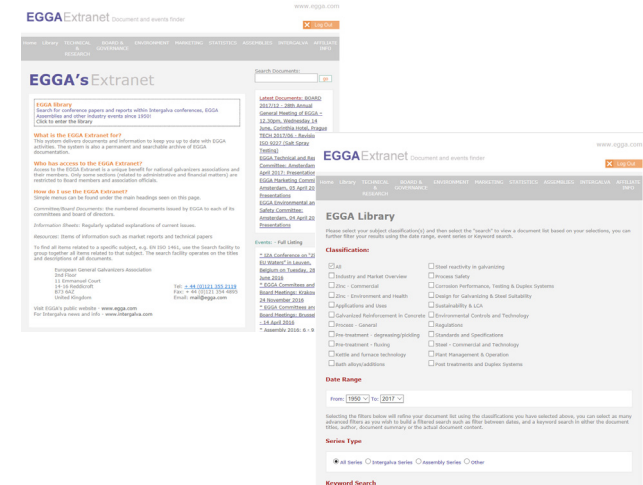
EGGA Extranet and Internal Communications

EGGA’s Extranet has been regularly updated to provide an archive of all committee and working group activities and documents. Access is controlled by National Associations who nominate participants to the EGGA committees and information system.

Regular email communications within committees have ensured that committee members are kept informed on the progress of EGGA activities and projects.

EGGA E-Library

The EGGA library has been updated with additional papers from worldwide industry conferences. This builds on the existing searchable database of all Intergalva and EGGA Assembly papers that have been published since 1950! Individual papers can be downloaded in PDF format. Access is available to EGGA Extranet users and can also be set for wider access by members of National Associations.



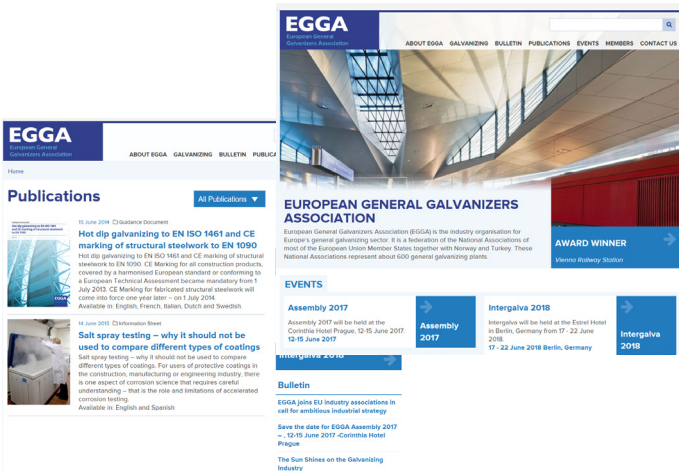
Social Media and E-Marketing

EGGA’s social media presence has been focused on promotion of Intergalva events - with Twitter, Facebook and LinkedIn channels in regular use. More recently, a new ‘EGGANEWS’ Twitter account has been set up to support advocacy activities for the #Industry4Europe campaign.

EGGA Web Sites

www.egga.com explains EGGA’s role and provides information on activities to external stakeholders. The site is not intended to provide detailed technical and promotional information on galvanizing – instead there are clear links to National Associations for that purpose.

The site has recently been updated with a new ‘Publications’ and ‘EGGA Diary’ sections. Information on EGGA Assemblies is also included on the site.



MARKETING

The EGGA Marketing Committee provides a platform for exchange of ideas and initiatives between National Associations. The committee also identifies specific projects that are suitable for a collaborative approach. The past 12 months have seen the completion of three important committee projects:

- Publication of a new Environmental Product Declaration for Batch Galvanizing to EN ISO 1461.
- Agreement on a new graphic symbol to assist in communicating the unique process of batch galvanizing to EN ISO 1461.
- Delivery of a set of promotional tools derived from Intergalva 2015 – including short video clips and a web microsite to highlight the Global Galvanizing Awards.

Environmental Product Declaration

EGGA has continued to play a leading role in the environmental and sustainability aspects of the industry's marketing work. An extensive data collection process involving 66 galvanizing plants across 14 countries created an updated EGGA Life Cycle Inventory dataset that was then used to create a fully-certified Environmental Product Declaration – setting out key data on environmental indicators such as global warming potential and acidification potential.



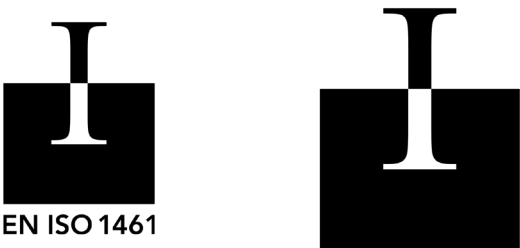
During the project, EGGA has led the update the International EPD System's 'Product Category Rules' for 'Corrosion Protection of Fabricated Steel Products' and Murray Cook has been appointed to the Advisory Board of the International EPD System.



The EPD will be of increasing importance in green public procurement for construction projects in many Member States. For example, EGGA is working with Zink Info Benelux to adapt the EPD information to position galvanizing favourable within the Dutch national environmental database for building products. The data will also be used by Worldsteel as part of their new 'buildLCA' tool.

Graphic Symbol for Batch Galvanizing

Confusion with other types of inferior zinc coatings has long been a problem for batch galvanizing. The need for a clear symbol to represent batch galvanizing was identified by the EGGA Marketing Committee as one action that could be taken to help address this problem. After examining many different options, the new graphic symbol was adopted in April 2017. The symbol is mainly intended for use by Associations in generic marketing and to provide a common identity within those communications – but the symbol is also available for use by Association members.



The symbol can be used with or without the EN ISO 1461 designation.

Competitive Threats

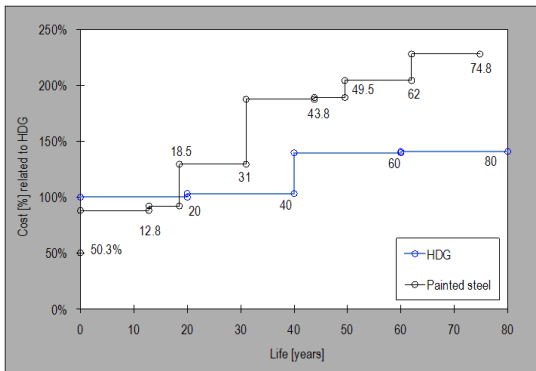
The EGGA Marketing Committee has provided a valuable platform for reactions to competition from other corrosion protection technologies. In 2016/2017, aggressive and misleading communications from companies that promote zinc-aluminium-magnesium coatings on steel sheet and zinc-rich paints have been reviewed and common responses agreed. Small-scale technical projects have been devised to demonstrate the relative advantages of batch galvanizing.

The advantages of complete coverage of a batch galvanized coating is being demonstrated in corrosion tests conducted by EGGA with the French laboratory, CETIM.



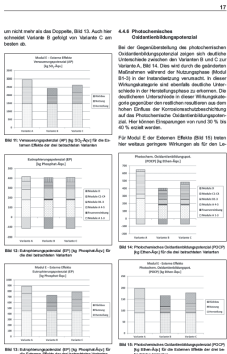
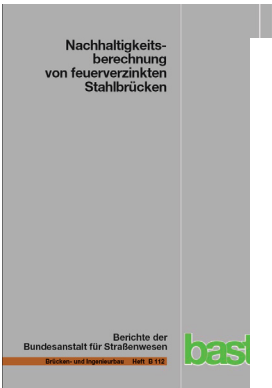
Exchanging information on opportunities

Information exchange on new opportunities such highway bridges, galvanized reinforcement and façade engineering is an important aspect of the EGGA Marketing Committee. For example, endorsements of the life cycle cost and environmental advantages of galvanizing of bridge sections have been generated in both Germany and Benelux and exchanged within the committee. The committee has also revisited the EGGA database of ‘case histories’ that was first established by Dr Frank Porter in 1996!



Prof. Rossi’s paper documents the significant economic advantages of galvanized bridges.

EGGA has worked with Prof. Barbara Rossi (KU Leuven) to support the publication of a paper ‘Comparative life cycle cost assessment of painted and hot-dip galvanized bridges’ in the Journal of Environmental Management.



Studies from Germany provide a useful basis for promotion of galvanized bridges across Europe.

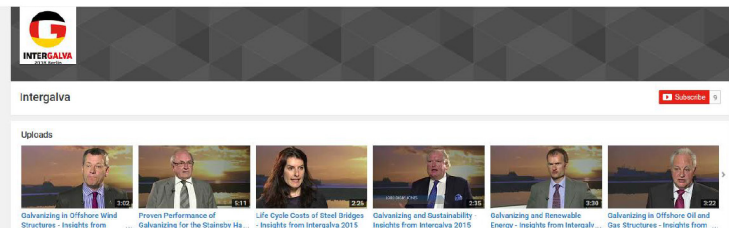
A small ‘Wind Energy Working Group’ has followed up on discussions with Siemens Wind Energy during Intergalva 2015 to identify further opportunities for galvanizing in that sector.

Market Statistics

Statistical information is collated by EGGA, in conjunction with national associations, covering the market and the status of the industry at European-level. This information is important when measuring market trends and for communicating the importance of the industry.

Intergalva Video Clips

With the support of IZA and UKGA, the highlights and positive contributions on the use of galvanizing from the speakers at Intergalva were captured on video and edited into a series of short videos.



These video clips and interviews are available for use by National Associations and our ‘partner’ associations worldwide – as useful additions to their web sites or for educational or promotional presentations.

These include videos on the specific themes of (i) sustainability and (ii) renewable energy. There is a video dedicated to the Global Galvanizing Awards – which can also be linked to the web page for the awards at www.intergalva.com/awards/2015/. There are video interviews with T Rossbrook (offshore applications); R Thompson (wind energy); Prof B Rossi (bridges) and D Deacon (bridges). The videos can be found on the new Intergalva YouTube channel.



Global Galvanizing Awards

The awards micro-site has been revised and updated to provide a valuable source of promotional materials. These tools are actively used by national associations – for example, GALDER has published the Global Galvanizing Awards brochure in Turkish language for distribution to architects in Turkey.



TECHNICAL AND RESEARCH

The EGGA Technical and Research Committee reviews and responds to the latest technical developments in the industry. Information on emerging issues is shared and discussed between National Associations.

CEN and ECISS Liaison

EGGA is formal liaison member of CEN and is an active contributor to, or monitoring, the following CEN or ECISS standardisation committees:

TC135 '*Execution of steel structures and aluminium structures*'

TC135/WG2 '*Technical requirements for the execution of steel structures*'

TC135/WG 15 '*EN 1090-1, Requirements for conformity assessment of structural components*'

TC139/WG8 '*Powder organic coatings for hot-dip galvanized steel products*'

TC 165 '*Waste water engineering*'

TC226 '*Road equipment*'

TC250 '*Structural Eurocodes*'

TC250/SC3 '*Eurocode 3 – Design of Steel Structures*'

TC262/WG2 '*Hot dip galvanized coatings*'

TC351 '*Construction Products – Assessment of release of dangerous substances*'

TC103 '*Structural steels other than reinforcements*'

TC104 '*Concrete reinforcing and pre-stressing steels*'

TC104/WG2 '*Galvanized reinforcing steels*'

TC106 '*Wire rod and wires*'

In collaboration with the Metals for Buildings alliance, EGGA is also actively engaged in the work of CEN/TC350 '*Environmental performance of buildings*'.

International Galvanizing Standards

EGGA operates the secretariat of ISO/TC107/SC4 '*Hot dip coatings (galvanized, etc)*' and is presently overseeing the revision of EN ISO 14713-2 '*Zinc coatings — Guidelines and recommendations for the protection against corrosion of iron and steel in structures — Part 2: Hot dip galvanizing*'.

An important amendment to EN ISO 14713-2 *Part 1: General principles of design and corrosion resistance* was successfully approved within ISO during 2016 and will soon be published.

ISO Corrosion Standards

EGGA is monitoring the activities of ISO/TC156 '*Corrosion of metals and alloys*'. The corrosion rates for zinc that are cited in the standards controlled by this committee are important for the marketing of galvanized steel. The committee also publishes standards for accelerated corrosion tests and EGGA ensures these standards do not imply that they predict or compare long-term performance of metallic coatings.

EGGA has also worked with National Associations to monitor and influence aspects of the revision of the ISO 12944 series of standards for paint coatings – to improve the position of duplex coatings

Galvanized reinforcement for concrete

After nearly 10 years of development (slowed by general difficulties in adopting CEN standards for steel reinforcement), EGGA has worked to bring prEN10348 '*Steel for the reinforcement of concrete-Galvanized reinforcing steel-Part 2: Galvanized reinforcing steel products*' to an imminent final voting stage. The existence of a CEN standard for galvanized rebar is an important platform for a new promotional initiative for this market segment.

Steel Design and Fabrication Standards

The introduction of CE-marking, by steel fabricators, of steel structures to EN 1090-1 places a new importance for the galvanizing industry to engage in the development of standards for steel construction. Throughout 2016/17, EGGA has played a very active role in the CEN/TC135 and its working groups to ensure that the position of galvanizing is suitably represented and the boundary between compliance with galvanizing standards and steel fabrication standards is well-defined in important revisions of EN 1090-1 and EN 1090-2.



CEN/TC135/WG2 in session in May 2017 to revise EN1090-2

EGGA's work on implementation of CE-marking to EN 1090-1 and the role of the galvanizing industry has provided detailed support to many national associations. EGGA has also continued to liaise with many other stakeholders in the certification and regulatory communities to support these activities, including meetings with the relevant officials within the European Commission and a renewed liaison status

with Sector Group 17 of the group of Notified Bodies (certification aspects).

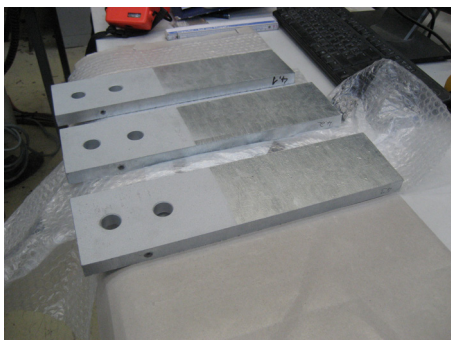
As a result, the additional burdens on the galvanizing industry have been minimised and extensive additional requirements on the galvanizing process within steel standards have been avoided. Furthermore, the attention by the steel fabricator to suitable fabrication for galvanizing has been reinforced and other aspects such as scope for use of galvanized steel in slip resistant joints has been enhanced in the planned revisions of these standards.

These activities have also resulted in a closer level of cooperation and understanding with the steel fabrication sector at both national and European level.

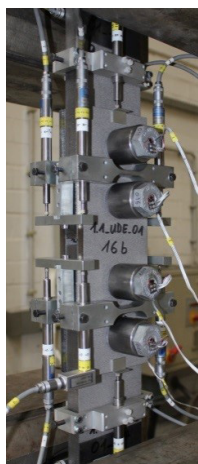
Slip Resistant Connections

For decades, there has been uncertainty about the reliability of bolted slip-resistant connections in steel structures. Slip factors for galvanized steel surfaces have been similarly difficult to define.

EGGA has been pleased to act as a partner in the EC-funded project 'Execution and reliability of slip-resistant connections for steel structures using carbon steel and stainless steel' (SIROCO). The 3-year project has been led by University of Duisburg-Essen and will conclude in 2017. Various post-treatments for galvanized steel surfaces have been successfully explored and clear recommendations for associated slip factors are expected.



The SIROCO project has investigated the effect of sweep blasting, needle gun and other treatments on the slip resistant of galvanized steel joints. EGGA is a partner in the project and works closely with the Industrieverband Feuerverzinken to advise on suitable surface preparations to be tested.



Fire Resistance

A variety of galvanized steel sections were subjected to a full-scale first test at the Effectis fire laboratory in France. This preliminary test, carried out in 2016, is the basis for further tests to be done in August 2017.

EGGA first identified the possibility to achieve moderate levels of fire resistance through studies at TU Prague and Tampere University. Recognition that galvanizing of structural steelwork can have a positive effect on fire resistance has steadily grown and attracts interest from steel fabricators who want to avoid otherwise-expensive fire protection treatments that often tip projects towards the use of concrete structures.

More recently, the concept is being investigated by TU Munich as part of a national project. In parallel, EGGA has partnered with CTICM (French institute for steel construction) and Galvazinc to conduct a series of full-scale fire tests to prove the concept for a range of steel section types. If successful, the approach could be a 'game-changer' for the use of galvanized steel in industrial buildings.



ENVIRONMENT AND SAFETY

Plant level – BREF Revision

The Best Available Technique Reference Note (BREF) for Ferrous Metal Processing is now being revised by the European IPPC Bureau. The revised BREF and its conclusions will have a more direct influence on national permit conditions for galvanizing plants. EGGA is coordinating industry input to the FMP BREF revision and this work is expected to dominate the work of the EGGA Environmental and Safety Committee throughout 2016-2010.



Technical Working Group members nominated by EGGA had a significant influence on the 'kick-off' meeting held in Sevilla, November 2016. The meeting set the scope of the revision and the basis of the data to be collected for limit setting.

An EGGA 'BREF Revision Working Group' has prepared a draft questionnaire to be used by EIPPCB for data collection from galvanizing plants and over 100 batch galvanizing plants have been identified to participate in the data collection.

Zinc and Water Regulation

EGGA works closely within a small industry 'water task force', led by the International Zinc Association, to monitor and respond to regulatory issues related to zinc levels in water.

The main focus of this work is the EU Water Framework Directive and the possible addition of zinc to the directive's 'priority list'. Detailed monitoring of the positions of Member State experts and Commission officials has been maintained and scientific input from zinc industry experts has been a feature of this work in 2016. As a result, zinc did not appear in the final proposals for a new 'priority list'. However, zinc continues to be a strong focus of attention at national level and further work is needed to avoid inappropriate pressures on zinc processes and product use.

Local anti-zinc issues have been monitored and support provided to respond to recommendations against use of zinc in building products in certain cities in Sweden and Denmark. EGGA works closely with Nordic Galvanizers and the wrought zinc (roof and gutter) sector on these issues.

Other zinc-related environmental issues are constantly reviewed and monitored – including the proposed withdrawal of EU authorisation for the use of zinc oxide in veterinary medicines (for pigs) that has been partly based on concerns for accumulation of zinc in agricultural soils.

LCA Methodology and Product Environmental Footprint
EGGA closely follows methodological developments in environmental life cycle assessment (LCA) to ensure that (i) the benefits of the simplicity, recyclability and durability of galvanized coatings can be quantified and (ii) inappropriate methodologies do not damage the position of galvanized steel. EGGA's work in this area has formed the basis for the use of EPDs in marketing work and EGGA has developed considerable expertise in the field.

In 2016/17, EGGA's focus has been on new proposals within CEN standards (EN15804/EN15978) for indicators for ecotoxicity of emissions through the product life cycle to be included in product-level and building-level assessments. The methodologies for these indicators is known not to be robust and can lead to highly adverse outcomes for galvanized steel products. EGGA has worked with other metals organisations to ensure that scientific doubts about use of these indicators in decision-making are documented in a new CEN Technical Report on the subject.

Nevertheless, the pressure to include these indicators in sustainability assessments for construction products (in CEN/TC350) and the European Commission's new Product Environmental Footprint (PEF) initiative remains politically strong. This subject remains at the forefront of EGGA's work. EGGA participates directly to Eurometaux's PEF Ad Hoc Working Group and is an active contributor to a 'shadow group' of zinc product sector.

Construction Products Regulation - Environmental Aspects

EGGA maintains implementation of Basic Construction Works Requirement #3 and #7 of the EU Construction Products Regulation. These relate to environmental and sustainability aspects and a favourable positioning of galvanized steel is EGGA's goal.

Environmental aspects related to tests for release of 'dangerous substances' are developed in CEN/TC351 where EGGA is a liaison member. EGGA has previously worked to exclude metal surfaces from the scope of these tests. During 2016/17, a new CEN Technical Report on ecotoxicity testing of eluates from construction products presented new challenges for EGGA. EGGA has led a coordinated response from the metals sector and attended the May 2017 plenary meeting of CEN/TC351.

Materials in Contact with Drinking Water

The '4MS' initiative of UK, Germany, Netherlands and France to develop lists of accepted materials for use in contact with drinking water has been monitored. In 2017, a new proposal to bring these requirements into the next revision of the EU Drinking Water Directive has emerged. Vasile Rus attended a stakeholder workshop to examine these proposals in May 2017.

REACH and Substance Regulation

EGGA has closely followed the recent EC human health classification of lead metal. Working closely with the zinc recycling industry, EGGA has assisted in the development of a bioelution testing approach to zinc alloys containing small amounts of lead that would otherwise result in an identical classification (and control) of remelt alloys used in the galvanizing industry. A careful assessment of REACH and related interpretations has ensured that the galvanizing industry is appropriately informed of the timing and implications of the classification.

The 'sunset date' for use of chromium trioxide and sodium dichromate in post-treatments for metal finishing processes is September 2017. EGGA has ensured that latest information on alternatives has been highlighted and debated, for example at Assembly 2016. Some companies maintain that use of chromium trioxide has unique technical benefits and EGGA has participated in an initiative for an 'upstream authorisation' to be secured by suppliers of chromium trioxide to the metal finishing sector. If approved, this would allow continued use under specified conditions beyond September 2017.

EGGA continues to monitor developments in Germany where proposed lower workplace exposure limits for zinc oxide may be brought to European-level and would present difficulties for galvanizing operations.

The use of recycled zinc in the galvanizing industry is an important aspect of the sustainability profile of the industry. EGGA continues to respond to regulatory barriers to that recycling loop – in particular the WEEE/ROHS directives that would severely limit the presence of lead in a galvanized coating without the existing exemption that allows a higher Pb concentration in certain steel products, including galvanized steel. EGGA works as a project leader within a consortium of the electrical industry, to renew this exemption in the EU ROHS2 Directive. It is now almost certain that this exemption will be renewed in 4Q2017 for a period of at least 7 years.



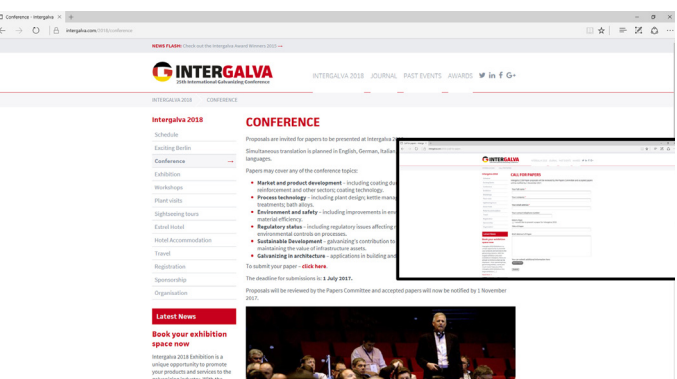
Intergalva 2018 will be held in Berlin, 17-22 June 2018 and is already a major project undertaking for EGGA and the host organisation, Industrieverband Feuerverzinken.

Planning and financial

The principles of the joint-venture agreement with Industrieverband Feuerverzinken have been established and the optimal financial and tax structures have been identified. EGGA has registered in Germany for VAT purposes. All venue contracts and most supplier contracts were concluded during 2016.

A series of project meetings have been held throughout 2016/2017 to prepare the event, including a programme of plant visits and an outline conference programme.

A web survey on preferred workshop topics has been carried out and the call for conference papers has been issued.



Significant sponsorship of the venue hire for the famous Berlin Konzerthaus has been kindly committed by companies within the Board of the Industrieverband Feuerverzinken.



Promotion



The event web site is already live – www.intergalva.com/2018. Partnerships with worldwide galvanizing industry associations have been established to ensure delivery of preliminary event information at the earliest stage. This has included promotional initiatives at industry events in China, Latin America, Australia, USA, India and across Europe.

EGGA’s email marketing database continues to expand and is the basis for event communications along with a steady social media stream.



Looking like a world champion - Mohammed Mohsin wins his Germany football shirt at the Intergalva 2018 booth at the 10th Asia Pacific General Galvanizing Conference - August 2016

EGGA Associate Members are already taking Intergalva 2018 to worldwide audiences.

Pictured: Jörg Koglin (Scheffer) en route to the Galvanizers Association of Australia Annual Conference



Exhibition and Sponsorship

All organisational details for the Intergalva 2018 exhibition have been completed. Sales were opened in April 2017, following a well-attended ‘Exhibitor briefing’ for members that was held at the Estrel Hotel, Berlin on 8 February 2017. Over 70% of available space has already been sold along with the majority of the sponsor opportunities. W Pilling will be a sole ‘Platinum Sponsor’ and will feature a centrally-located bar in the exhibition area.

National Associations



Austria - Fachverband Metalltechnische Industrie

Wiedner Hauptstrasse 63
A 1045 Wien
Austria

www.fmmt.at



Beneleux - Zinkinfo Benelux

Smederijstraat 2
4814 DB Breda
The Netherlands

www.zinkinfobenelux.com



Bulgaria - Bulgaria Galvanizers Association

P O Box 106
1309 Sofia
Bulgaria

www.galvanizing-bg.com



Czech Republic and Slovakia - Asociace českých a slovenských zinkoven

Českokobratrská 1663/6
702 00 Ostrava
Moravská Ostrava
Czech Republic

www.acsz.cz



France - Galvazinc

16 rue Jean-Jacques Rousseau
92138 Issy-les-Moulineaux Cedex
France

www.galvazinc.com



Germany - Industrieverband Feuerverzinken

Mörsenbroicher Weg 200
40470 Düsseldorf
Germany

www.feuerzinken.com



Greece - Hellenic Galvanizing Association

6klm ONR Thiva-Eleusis
32 200 P O Box 32
Greece



**HUNGARIAN
HOT-DIP
GALVANIZERS
ASSOCIATION**

Hungary - Hungarian Hot Dip Galvanizers Organization

2401 Dunaújváros, Pf. 237.
Hungary

www.hhga.hu



Italy - Associazione Italiana Zincatura

Via Luigi Lilio No 62
Cap 00142 Rome
Italy

www.aiz.it



Nordic Countries - Nordic Galvanizers

Zinc Info Norden AB
Danderydsvägen 146
SE-182 36 Danderyd
Sweden

www.nordicgalvanizers.com



Poland - Polskie Towarzystwo Cynkownicze

ul. Miedziana 3A m. 11
00-814 Warszawa
Poland

www.portal-cynkowniczy.pl



Romania - Asociatia Nationala a Zincatorilor

8-dul Muncii 103-105, Sala E01/A
cod 400641
Cluj-Napoca Romania

www.anaz.ro



Spain - Asociación Técnica Española de Galvanización

P de la Castellana, 143 – 1ºA
28046 Madrid
Spain

www.ateg.es



Turkey - Genel Galvanizciler Derneği

İçmeler Mah. Aydınlı Yolu Cad.
Kardelen Apt. No:10 K: 6 D: 24 Tuzla
İstanbul
Turkey

www.galder.org.tr



U.K and Ireland - Galvanizers Association

Wren's Court
56 Victoria Road
Sutton Coldfield
West Midlands B72 1SY

www.hdg.org.uk

European General Galvanizers Association
11 Emmanuel Court
14-16 Reddicroft
Sutton Coldfield B73 6AZ
United Kingdom

Tel: +44 (0) 121 355 2119
Fax: +44 (0) 121 354 4895
email: mail@egga.com
www.egga.com



June 2017