Corrosion Awareness Day Activities

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Damien Féron



OUTLINE

- 1. Organized the Corrosion Awareness Day activities
- 2. Media exposed for WCO Corrosion Awareness Day
- 3. Materials Corrosion Science and Technology Frontier Forum



1. Organized the Corrosion Awareness Day activities

April 24, 2019, whole day in the Institute of Metal Research, the Chinese Academy of Sciences, Shenyang, China.

400+ people jointed

- (1) Address by President Damien Féron
- (2) Corrosion lecture
- (3) Contest (Q&A)
- (4) Corrosion posters
- (5) Corrosion experiment demo
- (6) WCO Shenyang Declaration



(1) Address by President of WCO



- **≻What is corrosion?**
- **≻Why corrosion?**
- >What we need to avoid?
- >WCO major activities



Address by Prof. Hannu Hänninen



organizati

- Corrosion is a very important and interesting issue
- Personal research experiences more than 40 years on corrosion

(2) Lecture on Corrosion





- >Corrosion cost
- >What is corrosion
- > How to control corrosion
- >Corrosion vs people's life quality
- >~400 attendees



(3) Contest (Q&A)

Corrosion knowledge









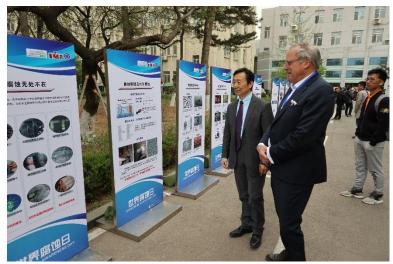


(4) Corrosion posters

- Corrosion vs people's daily life quality
- Corrosion vs people's safety
- Corrosion vs environment
- Corrosion cost
- Photos of corrosion damage
- Corrosion mechanisms
- Corrosion in nuclear
- Corrosion utilization

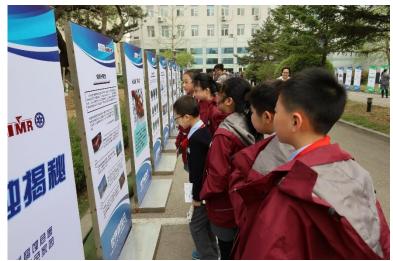


(4) Corrosion posters











(5) Corrosion experiments demo

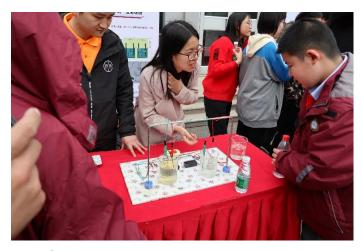
- Corrosion polarization
- Primary battery
- Fruit battery
- Galvanic corrosion
- Electrolytic cell



(5) Corrosion experiments demo



Experimental design of copper-zinc galvanic battery



Colorful electrolytic cell



Galvanic corrosion between Fe and Mg



(6) WCO Shenyang Declaration

- The Declaration was released jointly by Prof. Damien Féron,
 President of WCO and Prof. Han En-Hou, Immediate Past President
- Many famous corrosion scientists activated the activity jointly









2. Media exposed to WCO corrosion awareness day

- TV report
 - China Central TV
 - Liaoning TV
 - ➤ Shenyang TV 3 +
- Newspaper news and articles
 - People's Daily
 - > China Daily
 - > Economic Daily
 - > China Science Daily
 - China News
 - Liaoning Daily、Shenyang Daily、Shenyang Evening News.....8 + newspapers

Web page report & radios

- **≻Xinhua Net** Kexue Net
- > Renmin Net Shenyang Radio 4 +



	Media	Title	Web pages
	TVs		
1	China Central TV (CCTV)	Controlling Corrosion Hazards and Constructing A Green Home	http://www.cas.cn/spx/201904/t201 90425_4689850.shtml
2	Liaoning TV (LNTV)	World Corrosion Organization Conference Held in Shenyang	http://www.syb.cas.cn/xwzx/mtjj/20 1904/t20190423_5280189.html
3	Liaoning TV (LNTV)	"Corrosion Awareness Day" Science Popularization Activities Held in Shenyang	http://www.syb.cas.cn/xwzx/mtjj/20 1904/t20190425_5281576.html
4	Shenyang TV (SYTV)	World Corrosion Organization Conference Held in Shenyang	http://www.syb.cas.cn/xwzx/mtjj/20 1904/t20190423_5280188.html
5	Shenyang TV (SYTV)	"Corrosion Awareness Day" Science Popularization Activities Held in Shenyang	http://www.syb.cas.cn/xwzx/mtjj/20 1904/t20190425_5281580.html



	Newspaper		
6	Economic Daily	Corrosion, a monster lurking around you and me	https://mp.weixin.qq.com/s/XcFooYo8eig3 CpzP75XuXw
7	China Science Daily	"Corrosion Awareness Day" Science Popularization Activities Held in Shenyang	http://news.sciencenet.cn/sbhtmlnews/2019/4/345474.shtm
8	Xinhua Net	"Corrosion Awareness Day" Science Popularization Activities Held in Shenyang	http://www.ln.xinhuanet.com/2019- 04/24/c_1124409872.htm
9	Kexue Net	"Corrosion Awareness Day" Science Popularization Activities Held in Shenyang	http://news.sciencenet.cn/htmlnews/2019/4/425580.shtm
10	Renmin Net	"Corrosion Awareness Day" Science Popularization Activities Held in Shenyang	http://ln.people.com.cn/n2/2019/0425/c378 330-32879117.html
11	Liaoning Daily	Today is the 11th " Corrosion Awareness Day ", a series of activities to the public science corrosion knowledge	http://m.lnrbxmt.com/79897.html
12	Liaoning Daily	Materials Corrosion Science and Technology Frontier Forum held in Shenyang	http://wap.lnd.com.cn/tj/system/2019/04/25 /030015759.shtml
13	Shenyang Daily HE WORLD	"Corrosion Awareness Day" Science Popularization Activities Held in Shenyang	http://epaper.syd.com.cn/syrb/html/2019- 04/25/content_223544.htm?div=-1
	DRROSION ANIZATION		15

14	Shenyang Daily	Academician experts make suggestions for the establishment of corrosion control technology base in Shenyang	http://epaper.syd.com.cn/syrb/html/2 019-04/23/content_223224.htm?div=- 1
15	China Daily	"Corrosion Awareness Day" Science Popularization Activities Held in Shenyang	https://ln.chinadaily.com.cn/a/201904 /26/WS5cc26375a310e7f8b15793a4.ht ml
16	Shenyang Radio	Control Corrosion Hazards, Build a Green Home	https://mp.weixin.qq.com/s/cNnzgjr- BjSuCD24qnqXWg
17	Shenyang Evening News	Materials Corrosion Science and Technology Frontier Forum held in Shenyang	http://paper.syd.com.cn/html/432/201 9/04/23/437/content_471613.aspx
18	China News	Materials Corrosion Science and Technology Frontier Forum held in Shenyang	http://mini.eastday.com/mobile/19042 3092053033.html#
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3. Frontier Forum on Corrosion Science and Technology



3. Frontier Forum on Corrosion Science and Technology

Lectures:

THE WORLD

ORGANIZATION

- Material Genome and Corrosion
- Trace Method of Corrosion Mechanism Research
- Hydrogen Embrittlement and Hydrogen Resistant Materials
- Magnesium Alloy Corrosion and Electrochemistry
- Molten Salt Electrochemistry
- Photo Electrochemical Cathodic Protection
- Corrosion Monitoring / Detection Technology
- Graphene Heavy-duty Coatings
- Marine Bio-corrosion and Control Technology
- Corrosion Mechanism of Nuclear Power Materials
- Environmental Fracture Mechanism of Nuclear Power Welding Materials
- Corrosion Assessment of Nuclear Power Materials
- Service Safety and Life Prediction





Academician Ke Wei of the Chinese Academy of Engineering gave an opening speech



Chairman of the meeting, Prof. Han En-Hou chaired the meeting



Prof. Hannu Hänninen from the University of Aalto



Prof. Damien Feron from CEA,
France



Meeting Venue





Thank you!

