

# Invitation from ASQ Ann Arbor Section May 3, 2021 Virtual Meeting

**DATE:**

**Monday,  
May 3, 2021**

This is a virtual meeting/webinar. Information and instruction for how to join the meeting will be provided with registration.

**Time:**

**2:45 pm – 4:00 PDT**  
*Check registration site to confirm time*

**There is no charge for this meeting.**

**For more information and to register for this online/virtual meeting, click [here](#). Registration is required by April 29.**

Attendance at this meeting earns RUs toward ASQ recertification.

NOTE: Be sure to use the same email address to join the virtual meeting as you use when registering in order to receive the RUs. You must register for the event and join virtually to receive RUs.

For more information about Ann Arbor ASQ Section #1010, click [here](#).

For more information about our local Columbia Basin ASQ section and future upcoming events: [www.asq614.org/](http://www.asq614.org/).

## Corrosion Reliability



### **Dr. Jianhua Zhou** **ASQ Fellow, Consultant at JHZ Strategic QA**

Corrosion happens to various products such as chemical and petroleum equipment, automotive vehicles and components, highway bridges and infrastructures, home buildings and appliances, electrical and electronics, offshore structures and marine products.

Metal-loss corrosion is a major threat to the structural integrity and safe operation of underground oil and gas pipelines worldwide. The reliability-based corrosion management program has been increasingly used in the pipeline industry, which typically includes three tasks, namely periodic high-resolution inline inspections to detect and size corrosion defects on a given pipeline, engineering critical assessment of corrosion defects reported by the inspection tool and mitigation of defects.

There are a number of engineering challenges involved in reliability-based corrosion management programs, including the probabilistic corrosion growth modeling based on imperfect inspection data, time-dependent reliability evaluation, and optimal inspection interval determination for corroding pipelines.

Dr. Zhou will discuss some of these things and will also share an example of modeling corrosion and evaluating reliability.

*About the Speaker:* Prior to joining JHZ Strategic QA, Dr. Jianhua Zhou worked for Ford Motor Company where he held various positions including Vice President of Ford Asia Pacific Quality and New Model Programs, Corporate Executive Technical Leader and Member of Technology Advisory Board. Dr. Zhou has been actively involved in professional societies. He is an ASQ Fellow and Chief Technical Expert of ASQ Shanghai. He also serves as an Associate Editor of SAE International Journal of Materials and Manufacturing.

Dr. Zhou has published more than 30 technical papers, including one in the Japan Journal of Quality Forum. He has been a keynote speaker and panelist at various international conferences and symposiums. He is a three-time award winner of Taguchi Robust Design. In 2009, ASQ recognized Dr. Zhou the Quality Professional of the Year, and in 2015 ASQ bestowed the title Fellow for his contribution to advancing quality. Dr. Zhou holds a US patent on vehicle durability as well as M.S. and Ph.D. degrees from the University of Michigan, and a B.S. degree from Nanjing University of Technology.