



## ONLINE TRAINING/WEBINAR SPEAKER INFO, BIO & TOPIC ABSTRACT

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*Please provide the following information and email to [support@nwmoa.com](mailto:support@nwmoa.com).*

*If you are presenting on multiple topics during this event, please fill out one form for each topic.*

Name: Russ Swerdfeger  
Management

Suffix:

Job Title: Director, Product

(i.e.: Ph.D., P.E., Jr.)

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☒ Checking this Box confirms that I agree to be videoed and recorded for the duration of the Online Training/Webinar.

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**1. Speaker Biography** (please provide one paragraph – 150 words or less)

Russ Swerdfeger presently serves as the Global Municipal Marketing Manager for DuPont Water Solutions. He has been active in the membrane sector of the water and wastewater treatment industry for the past 19 years. He currently serves on the AMTA Board of Directors and serves the organization's Treasurer for 2020. Russ' work experience encompasses process engineering, R&D, sales and marketing roles. He has presented a number of posters and papers at membrane conferences both domestically and abroad. He holds a BS in Chemical Engineering from the Colorado School of Mines and a MBA from the University of Denver.

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**2. Topic Title** (please provide the topic title for your presentation)

Quality Consideration in Membrane Production

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**3. Topic Abstract** (please provide a minimum of 250 words for your presentation and describe how it relates to membrane technology)

The presentation will be a look at how the hollow fiber membranes are made, tested, shipped, and installed (without discussing any trade secrets). We will focus on the polymeric hollow fiber technology, discussing the various production methods, QC under the MFGM, and best practices to ensure quality in installation.



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**4. Polling Questions** (please provide up to 5 questions you might ask the audience, relative to your topic, which you would like to engage with them on. Questions are multiple choice. A right or wrong answer is not required. If you do provide a question with only 1 correct answer, please indicate which answer is correct.. Provide 3 answers to choose from.)

1. Q. What environmental factors can adversely impact the membranes in shipping or storage?  
A 1 Temperature  
A 2 UV/Sunlight Exposure  
A 3 Rough Handling  
A 4 All of The Above
2. Q. Membrane integrity failures are always due to the type of extrusion process  
A 1 True  
A 2 False  
A 3 Correct Answer is False
3. Q. Which of the following can adversely impact final product quality?  
A 1 Incoming material quality within specs  
A 2 Poorly maintained production equipment (correct)  
A 3 A new membrane fiber
4. Q. The MF/UF Potting does what?  
A 1 Holds the membrane fibers in place & gives the module structural rigidity (correct)  
A 2 Provides nutrients for fiber growth  
A 3 Sells very well during the spring
5. Q. What is membrane challenge testing?  
A 1 A test which confirms efficacy of the membrane's ability to reject pathogens  
A 2 The next episode of Dirty Jobs  
A 3 A rejected skit on Myth Busters