



Microrite, Inc. brings you this unique learning experience in Biofilm Basics; Part of Microrite's step-by-step webinar series.

Biofilm Basics

Microorganisms attached to surfaces are ubiquitous wherever a non-sterile aqueous phase encounters a surface. Communities of attached microorganisms (biofilms) accumulate in a wide variety of industrial and medical systems and often cause problems such as biofouling, biocorrosion, product degradation, and persistent medical infections. From shortly after attachment to a surface, bacteria begin to express genes that code for the production of extracellular polymeric substances (EPS) that encases the cells and entraps inorganic materials such as scale and corrosion products. Attachment may also cause the expression of virulence factors in pathogenic organisms, often as a result of complex quorum sensing mechanisms. Microorganisms residing in biofilms are typically much more resistant to antimicrobial treatment than their planktonic (free floating) counterparts and are therefore difficult to eradicate. This presentation will discuss how biofilms form, how they affect industrial and medical systems, why they are resistant to treatment, and methods we use to study and eradicate them.

When?

June 12th, 2018
1:30pm to 3:30pm
Eastern Standard Time

Which industries does this webinar apply to?

Pharmaceuticals, Biotechnology, Medical Device, Stem Cell Laboratories, and In Vitro Diagnostics

Who will benefit?

Quality Assurance, Quality Control, Microbiologists, Manufacturing, Engineering, and Training personnel

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step-by-step webinar series

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June 12th, 2018

Benefits to the participants:

- How biofilms attach and grow on surfaces
- Where biofilms are found in industry, medicine, and the environment
- Why biofilms are more difficult to kill and remove than planktonic microorganisms
- Visualizing how biofilms respond to shear conditions and antimicrobial treatment
- Standard methods used to study biofilm in the laboratory

Who will be teaching?

Paul Sturman is the Industrial Coordinator and Research Professor at the Center for Biofilm Engineering (CBE), a position he has held since 2000. The CBE is recognized internationally as the leading academic institution for interdisciplinary biofilm research and technology transfer. In addition to fundamental research, the CBE's mission supports applied research in the areas of industrial, medical, and environmental biofilms. The CBE has a robust industrial partnership program wherein over 30 industrial companies and US government entities support research and technology transfer efforts. As Industrial Coordinator, Dr. Sturman works closely with Industrial Associate companies to assist adoption of biofilm-related technologies as well as organizing twice-yearly biofilm research conferences (the Montana Biofilm Meetings). Dr. Sturman maintains research interests in investigations of biofilms in industrial water systems, environmental biofilms, and the development of standardized methods for biofilm analysis. In the past 4 years, Dr. Sturman has directed projects funded by over 25 industrial companies seeking to better understand how biofilms impact their products or processes.

Dr. Sturman has over 20 peer-reviewed publications and 3 book chapters and has made over 30 invited presentations at national and international conferences, typically focusing on biofilms and their control in industrial process streams and water systems. Dr. Sturman received his PhD from Montana State University and worked as a consulting engineer prior to his current position. Dr. Sturman is a registered professional engineer in Montana and regularly consults with industrial companies worldwide on problems related to biofouling and biofilm control.



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REGISTRATION FORM

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Personal Information of One Registrant	
Last Name: Mr. Ms. Dr.	First Name:
Job Title:	Organization:
Mailing Address:	
City/State/Zip	
Telephone:	
Email:	
Fee: (see fee structure below, all costs are per attendee)	
<input type="radio"/> 1 attendee \$225 <input type="radio"/> 2-5 attendees \$180 (per attendee)(20% Discount) <input type="radio"/> 6-10 attendees \$153 (per attendee)(32% Discount) <input type="radio"/> 11 or more attendees \$135 (per attendee)(40% Discount)	
<p>Method of Payment: Credit Card and Check payments only. Attendees can register and make payments on Microrite’s website: www.microrite.com or complete this form and fax to 408-445-1236. Check payments must be cleared before the webinar date. If you have any questions regarding payment methods feel free to contact Microrite at 408-445-0507 or send your enquiry to webinars@microrite.com.</p>	
<p>Confirmation of registration will be sent via email. For credit card payment on website, a payment receipt will be considered as confirmation of registration. For credit card information faxed to Microrite an email confirmation will be sent with a copy of payment receipt. Please call 408-445-0507 in due time if confirmation is not received after payment. Webinar cancellation must be received 3 business days prior to the webinar less a 10% service fee, cancellation requests will be accepted via email only. All refund requests must be made by the organizations primary contact or credit card holder. Refunds will be credited to the original credit card used to purchase the webinar.</p>	



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