



Pipeline distribution systems account for the vast majority of the physical infrastructure in the water industry. Their effective management represents the primary challenge to the industry, from both an operational and public health standpoint. Biofouling has a ubiquitous presence within these systems, and it can significantly impede their efficiency, through an increase in boundary shear caused by characteristic changes in surface roughness dynamics. Nevertheless, conventional pipeline design practices fail to take into account such effects, partially because research findings that could contribute to upgraded and optimized design practices appear inconsistent in the literature. The overall aim of this study was to improve the current scientific understanding of biofouling within water and wastewater pipelines; for the purpose of instigating a step-change in pipeline design theory by incorporating biofouling, thereby enabling future pipelines to be as efficient as practicable.

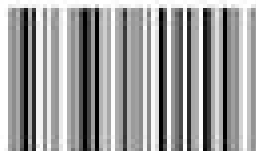
Matthew Cowle



Matthew graduated from Cardiff University with a doctoral degree in civil engineering in 2015. Following the completion of his PhD he joined Mett MacDonald Ltd. Matthew has published research findings in several reputable journals and his main areas of interest include experimental hydraulics and in-sewer processes.

Biofouling in pipelines

Assessing the impact of biofouling on the hydraulic efficiency of pipelines



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Biofouling Pipelines Assessing Biofouling Efficiency

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Biofouling in Pipelines Matthew Cowle, 2015-11-25 Pipeline distribution systems account for the vast majority of the physical infrastructure in the water industry. Their effective management represents the primary challenge to the industry from both an operational and public health standpoint. Biofouling has a ubiquitous presence within these systems and it can significantly impede their efficiency through an increase in boundary shear caused by characteristic changes in surface roughness dynamics. Nevertheless, conventional pipeline design practices fail to take into account such effects partially because research findings that could contribute to upgraded and optimised design practices appear inconsistent in the literature. The overall aim of this study was to improve the current scientific understanding of biofouling within water and wastewater pipelines for the purpose of instigating a step change in pipeline design theory by incorporating biofouling thereby enabling future pipelines to be as efficient as practicable. Assessing the Impact of Biofouling on the Hydraulic Efficiency of Pipelines Matthew Cowle, 2015

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Microbiologically Influenced Corrosion Testing Jeffery R. Kearns, Jeffrey R. Kearns, Brenda J. Little, 1994 The proceedings of the First International Symposium on title held in Miami during November of 1992 comprise a keynote address and 21 papers arranged in six topical sections electrochemical methods on line monitoring methods surface analysis techniques SRB characterization non metallic mate *A Complete Guidebook on Biofilm Study* Dijendra Nath Roy, 2022-06-22 A Complete Guidebook on Biofilm Study has emphasized the biofilm related issues in the present context related to research and development For this purpose experimental design and relevant experimental protocols for the biofilm studies have been highlighted here In addition to that inhibitors from natural or synthetic sources against microbial biofilm development have been addressed This approach has been further substantiated by bioinformatics as well as nanotechnology based reports Both the image processing related to biofilm study and the characters of substratum associated with biofilm development have also been included for a better understanding of the beginners in this field Further how biofilm helps and or hampers in food processing and waste management system that discussion has been considered in this book Similarly human benefits from biofilm and reverse of it have also been included considering host pathogen interaction immunity aspects and others Carrying huge resources information ideas in a compiled manner for biofilm study work Has highlighted how biofilm related experiment has to be designed based on protocols This book has focused majorly about biofilm related gene regulation along with the development of different inhibitors for therapeutic aspects This paradigm has been further discussed based on the nanotechnology and bioinformatics approach Biofilm studies related to waste management food processing and image processing which are newly upcoming have been emphasized in this book

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