# **Faculty**

#### Subijoy Dutta, P.E. Managing Director, S&M Engineering, LLC

Mr. Dutta, a registered professional engineer (P.E.), is fully engaged in water and environmental protection with his leadership in S&M Engineering, LLC (SNM), a Maryland corporation. SNM has a registered office in Kolkata and affiliate offices in Delhi, and Mumbai, India. He finished his B.E. degree in Mechanical Engineering from the Assam Engineering College, Guwahati, India. Mr. Dutta worked in Shillong, India, for about four years before moving to UW-Milwaukee to pursue his MS (Mechanical) degree. A year later, he transferred to the University of Oklahoma (OU) in Norman. After completing two MS degrees, one in Mechanical and the other in Petroleum & Geological Engineering from the OU, Mr. Dutta joined OU as a research faculty and opened his own consulting company, S&M Engineering Services. Later he joined the Tinker Air Force Base in Oklahoma City, where he arranged to clean up five waste sites within a very short time. This earned him a National Award for Environmental Excellence in 1992 from the Air Force Chief of Staff in Washington, DC. Later, Mr. Dutta joined the US Environmental Protection Agency in DC and worked there for 20 years. During that time he worked with a multi-discipline team involving various EPA regional offices and industries to develop the best management practices guide for treatment technologies to minimize emissions and migration of contaminants. He also provided active support to help the Central Pollution Control Board in India in their development of regulations for municipal solid waste management and medical waste. Mr. Dutta's 35-plus years' experience as an environmental professional spanned across protection and restoration of human health and the environment involving municipal, hazardous and medical waste sites management. His work in protecting the human health and the environment covers the Yamuna River basin in India. Iloilo River in Philippines, Bagmati River in Nepal, and the Yangtze river in China. Mr. Dutta conducted a number of national and international environmental assessments, remedial design and a few site cleanups. He provided training seminars in medical waste management in cities/ universities in India and US. Mr. Dutta visited medical facilities in India and provided training to the hospital management and staff in safe management of infectious waste and the effectiveness of Segregation at source. He provided training seminars in medical waste management in cities/universities in India and the US

Mr. Dutta formed the Rivers of the World Foundation, a charitable organization. He is actively working on over 10 rivers in India, Philippines, Nepal, China, and Indonesia. He has authored the following two books: Environmental Treatment Technologies for Municipal, Industrial and Medical Wastes Remedial Scope and Efficacy, 2nd edition, Taylor & Francis (CRC Press), and Sustainable Mining Practices - A Global Perspective, published by Balkema Publishers.

#### **Guest Speaker:**

#### Emission Control and Monitoring of Gases during Waste Handling/Treatment

#### William E. (Bill) Roper, PhD, PE

Professor Roper is an adjunct professor with the College of Science at George Mason University and an expert in multiple technologies and methodologies that have engineering, environmental and public policy applications. He has spent a lifetime engaged in civil & environmental engineering and public policy. Dr. Roper has developed and led major R&D programs in areas such as dredging operations, wetlands, construction productivity, invasive species control, energy efficiency and geospatial technology. For many years, he has served as the director of the U.S. Army Corps of Engineers Worldwide Civil Works Research and Development Program as a Senior Executive Service (SES) official. Dr. Roper also served as director of the U.S. Army Topographic Engineering Center (TEC). His professional experience includes senior management positions in the U.S. Department of Transportation, U.S. Environmental Protection Agency, U.S. Army, Arlington County Government, academia and the private sector. Additionally, Dr. Roper has been active with the Water Science and Technology Board, the Infrastructure and Constructed Environment Board, and the Transportation Research Board of the National Academy of Engineering.

#### **Guest Speaker:** Waste Management for COVID 19 Pandemic

Dr. Kumar Kanti Das , FRCS Intermediate science 1960 St. Edmund's College, Shillong MBBS 1965 National Medical College, Kolkata Trained in Safdar Jung Hospital, Delhi 1965-1966 Moved to USA 1967 and trained in: Griffin Hospital, Derby, Connecticut 1967-1968 Wilson Memorial hospital, Johnson City, NY 1968- 1972 FRCS (Canada) 1975 FACS 1977

Practiced as General Surgeon in Binghamton, NY from 1972 to 1985 Moved to India 1987 and worked as Chief Surgeon Red Cross Hospital, Silchar from 1987 to 2002 Joined SMSB (Kalyani Hospital) 2002 and is working as Director, currently

# Emission Control and Monitoring of Gases during Waste Handling/Treatment Waste Management for COVID 19 Pandemic Webinars Interactive Live,







# Live, Interactive Webinars

### **Emission Control and Monitoring of Gases during Waste Handling/Treatment**

- Thursday, March 10, 2022 | 9:00 am - 12:15 pm CST

#### Waste Management for COVID 19 Pandemic

- Friday, March 11, 2022 | 9:00 am 12:15 pm CST
- To register, view detailed presenter biographies, and see other learning opportunities, please visit:

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# HalfMoon Education Live Webinars



# **Treatment**

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## Waste Management for **COVID 19 Pandemic**

Friday, March 11, 2022 | 9:00 am - 12:15 pm CST Credits: Professional Engineers: 3.0 PDHs (No credit offered in NY)

# **Emission Control and Monitoring** of Gases during Waste Handling/

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# **Emission Control and Monitoring of Gases during Waste Handling/Treatment**

Thursday, March 10, 2022 | 9:00 am - 12:15 pm CST (incl. a 15-min break) Tuition: \$150 per registrant

Credits: Professional Engineers: 3.0 PDHs (No credit offered in NY)

Agenda Waste Categories – Municipal and Industrial What is waste and why?		Agenda Medical Waste Identification and Profile Categories of infectious waste		Completion certificates wi to prompts and earn a pa (multiple attempts allowe
Categorization of waste	<ul> <li>Regulatory background</li> </ul>	Common municipal wastes	<ul> <li>Deceptive/innocuous hazardous wastes</li> </ul>	
<b>Municipal Waste</b> Recognizing waste types Types of waste	Source of waste	<ul> <li>Items of routine usage (not wastes)</li> <li>Common infectious wastes</li> <li>Global variations in classification of ir</li> <li>Isolation waste</li> </ul>	nfectious wastes • Cultures, stocks and associated biologicals	Project Management for - Fri, Feb 11, 2022 8:30 am
Industrial Waste Waste characteristics Climate Change and Health Impac Emission/migration points - general w	Visual observations <b>ts of Emissions during Waste Handling</b> vaste management steps	<ul> <li>Human blood and blood products</li> <li>Used sharps</li> <li>Unused sharps</li> <li>Hospital/medical waste identification and</li> </ul>	Pathological waste     Contaminated animal carcasses	Science, Materials and - Tues, Feb 15, 2022 9:30 a Drones in Construction
<ul><li>Staging and site preparation</li><li>Treatment</li></ul>	Pre-treatment     Post-treatment	<ul> <li>General waste</li> <li>Paper, plastics</li> <li>Infectious waste</li> </ul>		Deep Dive into AIA Stat
Climate Change – Findings and Observations European Commission (EC) National Aeronautics and Space Administration (NASA) Gases and their potential (EC) Comparison of global surface temperature changes and solar irradiation since 1880		<ul> <li>Linens, clothing, food waste, body f</li> <li>Hazardous waste</li> <li>Chemotherapy and antineoplastic of</li> <li>Formaldehyde</li> <li>Medical waste minimization options</li> </ul>	luids chemicals - Photographic chemicals	Contractor - Thurs, Feb 17, 2022 9:00 - Fire-Resistant Landsca and Construction
<ul> <li>Minimizing Global Warming and Related Disasters - Monitoring and Control of Emissions</li> <li>Point source emissions vs. non-point sources (power plant vs. burning MSW)</li> <li>Monitoring technologies         <ul> <li>Traditional lab, field, visual</li> <li>Remote sensing – high resolution sensors for environmental applications</li> <li>Control technologies</li> </ul> </li> <li>Brief Overview of Waste Treatment Process – with a Focus on Emissions</li> <li>*Brief Overview of the General Process</li> <li>Site assessments and investigations</li> <li>Site characterization</li> <li>Development and screening of alternatives</li> <li>Pomodial design (remodial action</li> </ul>		<ul> <li>Segregation of individual waste streams</li> <li>Management and control practices</li> <li>Waste management for COVID-19 pandemic</li> <li>COVID-19-waste (C-19-waste) in the United States, Spain, Italy, South Korea and other countries</li> <li>Interim guidance from WHO and CDC to cope with the massive increase in C-19 waste</li> <li>Guidance on safe handling of COVID patients for health care staff and other areas of the hospital/facility</li> <li>Protocols to safely operate a duplex facility – (a) the COVID patients in one area and (b) routine and emergency health care patients in another/area</li> <li>Handling, disinfection and disposal of C19-waste – massive vaccination, sampling and testing</li> <li>Global vaccines, testing and related wastes</li> </ul>		<ul> <li>Fri, Feb 18, 2022 10:00 an</li> <li>The Impact of Geosynt on Site Design</li> <li>Tues, Feb 22, 2022 10:00</li> <li>Slope Stabilization and Landslide Preventi</li> <li>Wed, Feb 23, 2022 8:30 at</li> </ul>
				How to Obtain, Interpr and Change a FEMA Flo - Wed, Feb 23, 2022 12:00 How to Use Berms and for Stormwater Infiltra
Closure and post-closure care	22 USECMGAS 3 10 WEBR LH	<ul> <li>Wates types, issues</li> <li>Cross infections</li> <li>Medical waste treatment technologies</li> <li>Autoclave treatment</li> <li>Chemical/mechanical treatment</li> </ul>	<ul> <li>Vaccine types (CDC/WHO)</li> <li>Short wave RF treatment</li> <li>Microwave treatment</li> </ul>	- Thurs, Feb 24, 2022 9:00 - <b>Soils in Construction</b> - Thurs, Feb 24, 2022 12:00 - Fri, Feb 25, 2022 12:00 - 4
To register and to see other learn	ing opportunities, please visit:	Segregation     Emission control and best management	• On-site vs. off-site considerations t practices (BMPs)	Can't Attend? Order Recordings of each web

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Waste Management for COVID 19 Pandemic

Friday, March 11, 2022 | 9:00 am - 12:15 pm CST (incl. a 15-min break) Tuition: \$150 per registrant

Credits: Professional Engineers: 3.0 PDHs (No credit offered in NY)

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<b>gineers</b> pm CST	Introduction to HEC-RAS Modeling - Fri, Feb 25, 2022   8:30 am - 5:00 pm CST			
pair: niques	<b>Patent Law for Engineers</b> - Mon, Feb 28, 2022 8:30 am - 4:00 pm CST			
00 pm CST	<b>Roadway Design</b> - Mon, Feb 28, 2022 8:30 am - 4:30 pm CST			
30 pm CST	AIA Contract Document Workshop			
<b>er and</b> am CST	<ul> <li>Tues, March 1, 2022 8:30 am - 5:00 pm CST</li> <li>Shallow Foundation Design</li> <li>Thurs, March 3, 2022 11:00 am - 2:15 pm CST</li> <li>Fri, March 4, 2022 11:00 am - 2:15 pm CST</li> </ul>			
0 pm CST	Developing Infrastructure for Electric Vehicles - Mon, March 7, 2022 9:30 am - 4:30 pm CST			
<b>s</b> 2:00 pm CST	Engineered Lumber Design and Construction - Tues, March 8, 2022   8:30 am - 12:10 pm CST - Wed, March 9, 2022   8:30 am - 12:10 pm CST			
00 pm CST	Complying with Commercial Provisions of the 2021 International Energy Conservation Code			
pm CST	Designing and Constructing			
l <b>es</b> ) am CST	All-Electric Buildings - Wed, March 9, 2022   11:00 am - 2:15 pm CST - Thurs, March 10, 2022   11:00 am - 2:15 pm CST			
) pm CST n CST	For more information and other online learning opportunities visit: www.halfmoonseminars.org			