NYWEA’s Member Education Committee
Training is Going Virtual!
Membrane Bioreactors Lunch & Learn
4-Part Webinar Series

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Kevin Crane, Kubota Membrane USA Corporation</th>
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<tr>
<td>Contact Hours</td>
<td>PDH, up to 4.0 hours; RTC, up to 4.0 hours</td>
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<tr>
<td>Time</td>
<td>12:00 pm-1:00 pm</td>
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Course Outline (Virtual Training via Zoom)

June 17
MBR 101: Types, Terms, Treatment and Components
PART 1 Membrane types
(1 hour) Terms and definitions
Treatment capabilities and system components

Biological Nutrient Removal
Nitrification/denitrification
Biological phosphorus removal
How MBR technology can improve performance

June 24
Managing MBR System Performance
PART 2 Biofilm, air scour and chemical cleaning and their role in
(1 hour) optimizing system performance

July 1
MBR Operations
PART 3 Operating modes
(1 hour) System component selection
Control system architecture
Troubleshooting

July 8
Fishbone Analysis of MBRs
PART 4 Retrofitting conventional activated sludge with MBRs
(1 hour) Case study

Virtual Training via Zoom: Membrane Bioreactors Lunch & Learn Webinar Series (4-part series) via Zoom

- June 17, 2020
  MBR 101: Types, Terms, Treatment and Components $20.00 or All 4/$75 $_____
- June 24, 2020
  MBR System Performance $20.00 or All 4/$75 $_____
- July 1, 2020
  MBR Operations $20.00 or All 4/$75 $_____
- July 8, 2020
  Fishbone Analysis of MBRs $20.00 or All 4/$75 $_____

TOTAL $_____

This webinar series is sponsored by Koester Associates