



CSWEA
Webinar
Series

Tuesday – February 22, 2022

12:30 PM to 2:00 PM

Topic: Granules Galore

- 12:30 PM **Introduction – Nicole Heyniger, M.S. Student, Marquette University**
- 12:35 PM **The Photgranulation Phenomenon – Aeration free wastewater treatment**
Chul Park, Ph.D. | Professor - University of Massachusetts - Amherst
- 1:10 PM **Aerobic Granules for Wastewater Treatment – Where we’ve been, and where we’re going**
Belinda S.M. Sturm, Ph.D. | Associate Vice Chancellor for Research and Professor – University of Kansas
- 1:45 PM **Panel Q&A with all presenters**
- 2:00 PM **Adjourn**

CONTINUING EDUCATION

1.5 CEUs Requested for Operators in Illinois, Wisconsin & Minnesota. Operator ID/Quiz required for webinar.
1.8 PDHs for all Professional Engineers



COST

\$15 – Members (Discount Code: CSWEA)
\$20 – Non-Members
\$5 – Student (Discount Code: Student)
\$5 – International (Discount Code: International)

REGISTER





CSWEA
Webinar
Series

Speaker Bio's



Ms. Nicole Heyniger is a master's student in the Department of Civil, Construction, and Environmental Engineering at Marquette University. She received her B.S. in Civil Engineering with an emphasis in Environmental Engineering from Marquette University in 2020. Her MS research focuses on using multiple wavelength ultraviolet light emitting diodes (UV-LED) for the degradation of antibiotic resistance and genes compared to conventional low-pressure UV treatment.



Dr. Chul Park is a professor in the Department of Civil and Environmental Engineering at the University of Massachusetts Amherst. He received PhD in Civil Engineering at Virginia Tech. Dr. Park is interested in microbial aggregation and its impact on both built and natural environments. His current research focuses on the photogranulation phenomenon and its implication for energy yielding wastewater treatment and albedo reduction in glaciers and glacial melt. He is also investigating processes and mechanisms to minimize sludge production and recover energy and nutrients from wastewater.



Dr. Belinda Sturm is a professor in the Department of Civil, Environmental & Architectural Engineering at the University of Kansas. Her research group studies the application of biological processes in environmental engineering toward public health protection and sustainability. Dr. Sturms's primary interest is the use of microbial communities in water reclamation and resource recovery from municipal wastewater. Her group applies a holistic research approach that includes microbial ecology, bioreactor design and operation, and life cycle assessment. Her students often work with utility partners.



CSWEA
Webinar
Series