# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Solid Minimalization Strategies for Midsize Wastewater Treatment Plant; Mass and Energy Balance Ev

Presenter: Gerhard Forstner Title: CNP President

Employer: Centrisys/CNP Address: 9586 58th Place

City: Kenosha State: WI Zip: 53144 Phone: 262 705 9973

Summary of Lesson content: Please find the separate document

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation:

Sludge Dewatering; Sludge thickening; Thermal Hydrolysis; Thermal Treatment; Anaerobic Digestion

Education (High School, Upgrades, Colleges and Degrees): Bachelor in Electrical Engineering degree and

MBA With over 20 years of experience in taking innovative biosolids processes and equipment to the market.

Professional Registration/Certification: Water Environment Federation, The Water Research Foundation

Leaders Innovation Forum for Technology

Related papers/instruction you have presented:

Title: Reducing Viscosity of Thickened Was Hydrolysis Process Date: 2017 Event: WEFTEC

Title Operation and maintenance of a therr Date: 2018 Event: WEFTEC

Professional Organizations/Activities:

WERF Project: Demonstrating the CalPrex System for High Efficiency Phosphorus Recovery (Project #5004) Date: 2016-2021

Date:

Course sponsor: Treatment Equipment Company

Signature of Instructor: Gerhard Forstner Date: 9/7/2021

**DO NOT WRITE BELOW THIS LINE**

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Date Evaluated: By: Approved: Yes No

Return Completed Form To: OESAC CEU COMMITTEE
P.O. Box 577
Canby, OR 97013-0577

Email: info@oesac.org
Phone: 503-698-6486

**Course Title**
Solid Minimalization Strategies for Midsize Wastewater Treatment Plant; Mass and Energy Balance Evaluation

**Summary**

Reduction of sludge volume can be achieved by enhanced solids stabilization, mechanical thickening and dewatering, and thermal processing to evaporate water. In this presentation, a case study of a typical wastewater treatment plant serving 100,000 people was used to illustrate how these sludge minimization technologies change the mass and energy balance of the wastewater treatment plant. Where the right combinations of equipment are chosen, substantial sludge volume reduction can be realized without significantly increasing the required manpower or energy demand.

**Timeline**
The presentation is likely to take 30 minutes along with 30 minutes of Q & A. Currently, a quiz and course evaluation are not part of the timeline but if it is the requirement for the CEU, it could be incorporated by using an app available on the MS TEAMS platform.

**Attendance Verification**
Pre-registration and confirmation of attendance by the MS TEAMS meeting participants list

# Gerhard Forstner

## CNP President

*Nutrient Recovery Expert*

Many municipalities use legacy wastewater treatment systems that are three or four decades old. With new processes emerging, these technological advancements offer opportunities to improve the plant's efficiency and cost savings.

Turn to CNP President Gerhard Forstner as he has over twenty years of experience in taking innovative biosolids processes and equipment to the market. Fostner is instrumental in positioning CNP - Technology Water and Biosolids as a leader in nutrient recovery and sludge optimization solutions. He led the CNP team as the design-build developer on the Kenosha Energy Optimization Project and was a key contributor to its success.

## Biography

Forstner joined CNP in 2013 and leads CNP in its phosphorous recovery and thermal hydrolysis process (THP) initiatives. Forstner is highly experienced in primary, secondary and tertiary treatment systems and has worked in both the municipal and industrial wastewater industries. He has a thorough understanding of biosolids treatment systems, including thermal hydrolysis systems, drying and gasification technologies. He leads a team of industry veterans who have over five decades of experience in engineering, process design and project management.

A native of Austria, Forstner graduated from Kapfenberg Technical College in Austria with an Electrical Engineering degree. He holds a MBA from Queens University in Charlotte, NC. Forstner began working in wastewater, water and sludge treatment in 2001. He gained valuable industry knowledge while working as a: application engineer, project manager, regional sales manager and the President of Huber Technology, USA.

## Providing Thought Leadership On:

- How to properly optimize existing processes
- Turn wastewater treatment plants from an energy consumer to an energy provider
- Design-Build a cost-effective and eco-friendly solution to biosolids handling, processing and disposal

## Awards

- 2019 Frost & Sullivan Product Leadership Award for the North American Sludge Treatment (PONDUS)
- 2019 CIOReview for the 20 Most Promising Metals and Mining Technology Solution Providers
- 2019 Salvation Army Other's Award Recipient for "Resources Supporting Others"
- 2018-19 CalPrex Tailored Collaborative Research (TCR) with The Water Research Foundation (WRF)
- 2018 Utility of the Future Today Recognition Program for the Kenosha WWTP Optimization Project (PONDUS)
- 2017 W&WD Top Project for the Kenosha WWTP Optimization Project (PONDUS)
- 2017 ACEC Grand Award Winner for the Kenosha WWTP Optimization Project (PONDUS)
- 2016 U.S. Environmental Protection Agency (EPA) Nutrient Recycling Challenge Award (MagPrex)

## Affiliations

- Water Environment Federation (WEF)
- The Water Research Foundation (WRF)
- Leaders Innovation Forum for Technology (LIFT)
- Mid-Atlantic Biosolids Association (MABA)
- Kenosha Area Business Alliance (KABA)
- Kenosha Area Chamber of Commerce
- The Water Council



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