



IWA Specialist Conference

## Nutrient Removal and Recovery: moving innovation into practice

18–21 MAY, 2015 ■ AMBER EXPO, GDAŃSK, POLAND



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### Abstract title:

Full-scale Experiences With Aerobic Granular Biomass Technology For Wastewater Treatment

### Abstract text:

The Nereda® aerobic granular biomass is an innovative wastewater treatment technology for biological nutrient removal that is considered to be the first game-changing innovation offspring of activated sludge since its birth in 1914. The Nereda technology has been developed and matured as outcome of Dutch concerted research and development, and is now applied in several industrial and urban wastewater treatment plants in the Netherlands, South Africa and Portugal. These plants have demonstrated significant improvements with regard to process stability, effluent quality (TN<5mg/l, TP<0.3mg/l), and energy savings (up to 50%), compared to traditional activated sludge processes. Another 20 plants are in various stages of design, construction, and commissioning in a range of countries, including the Netherlands, Portugal, Poland, South Africa, Brazil, the UK, Ireland, Australia and Switzerland. With tank-sizes similar to the world's largest SBR tank volumes, the technology is now mature and ready to be applied for even the largest treatment challenges. By delivering enhanced treatment standards at lower CAPEX, lower OPEX, and smaller footprints than existing solutions, this technology is considered a real game-changer in the treatment arena and will probably replace her grandfather activated sludge as the new modern biological wastewater treatment standard.

### References:

### Supplementary Material:

## Conference themes:

125 6. New technologies for maintaining biomass in NR reactors (membranes; granular sludge, biofilm carriers; hybrid systems)

## Oral or poster presentation?

Oral presentation

## Keywords

3-6 keywords (in alphabetical order) which will enable subsequent abstracting or information retrieval systems to locate the paper

Keywords Aerobic granular biomass, energy efficiency, innovative biotechnology, Nereda, sustainability

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## Authors of the Paper

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## Registration Fees

All accepted oral and poster presenters are required to register for the Conference and pay the registration fee. Failing to register or non-payment of fees will result in your paper being removed from the conference programme.

## Important Dates

- Abstract submission deadline: 30 November 2014
- Early bird registration ends: 15 February 2015
- Deadline for full paper submission: 1 April 2015

## Abstract Withdrawal

Should you wish to withdraw your abstract after it has been submitted, please send your request to [secretary@nrr2015.org](mailto:secretary@nrr2015.org)

## Complete Submission

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