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v Ljubljani

Fakulteta *za kemijo*
in kemijsko tehnologijo

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**VABILO NA PREDAVANJE
V OKVIRU DOKTORSKEGA ŠTUDIJA
KEMIJSKE ZNANOSTI**

Prof. Emeritus dr. Andrew J. Englande

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z naslovom:

**Integrated Approaches and Technologies for
Wastewater Management**

v sredo, 18. maja 2016 ob 15:00 uri
v predavalnici 1 v 1. nadstropju Fakultete
za kemijo in kemijsko tehnologijo, Večna pot 113

Vljudno vabljeni!

Povzetek

Focus will be on advances in management of industrial and municipal water resources across the full water cycle. Historical developments from end of pipe treatment to conservation, reuse and sustainability practices and issues will be covered. Treatment of wastewaters to high quality is increasingly important as water resources continue to become scarcer and more valuable

Today's water management alternatives are based on minimizing water supply demand, producing less waste and treatment options having less energy requirements, less greenhouse gas emissions and integrated technologies at low cost. Discussion will include regulatory considerations regarding toxicity issues; persistent pollutants; contaminants of emerging concern (CECs); etc. Broader integrated water management issues consider wastewater as a resource rather than a waste.

Options available for upgrading existing treatment facilities and for constructing new facilities to comply with current and potential future regulations will be addressed. Integrated treatment technologies to produce a safe, reusable effluent and saleable residue at minimal capital and operating/maintenance costs is the ultimate goal. To accomplish this, a holistic approach such as life cycle analysis is needed. For industrial wastewaters, water management across the entire supply chain must be evaluated. Research and developments needed to better achieve sustainability goals will also be addressed.