

Webinar 16th of October, 14.00 (UTC-2)

Electronic tongues and noses – How can they support detection and prevention?

You are invited to a CARER-webinar about sensor technology! The research front in forensic technical support tools is presented by two researchers from the division of Sensor and Actuator Systems (SAS) at Linköping University.

DONATELLA PUGLISI, Associate Professor of Applied Physics at the Department of Physics, Chemistry and Biology (IFM) at Linköping University will talk about machine learning-enhanced electronic noses, with a focus on volatile organic compounds. In war, disasters, and ordinary police work it is important to detect, locate, and identify bodies or human remains quickly. Identification based on odor detection as a form of forensic evidence is an emerging area that could revolutionize investigations in the coming years. The electronic nose may prove useful in such contexts and environments where access to humans is too dangerous.

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MATS ERIKSSON, senior associate professor in Applied Physics at the Department of Physics, Chemistry, and Biology (IFM) at Linköping University will talk about electrochemical sensor networks ("electronic tongues") to monitor urban water distribution systems. The increasing illegal trespassing at waterworks lately, both in Sweden and in other countries calls for improved monitoring of the water infrastructure perimeter, but there is also concern that an intruder might tamper with the water. Therefore, fast and sensitive chemical sensors and biosensors are of interest for early warning.

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The webinar invites personnel involved in preparedness planning and response to crisis and civil defense, missing person search and in forensic investigations, as well as in researchers in these fields.

Registration deadline: 7th of October

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