

Svenska Kemisamfundets Göteborgskrets

inbjuder till en föreläsning med Raychelle Burks den 14 juni 2018

OBS! Föreläsningen ges på engelska

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**Torsdag 14 juni, 2018      Raychelle Burks, St. Edward's University, Texas, USA**

**Tid: Kl. 12:00 - 13:00**

**Plats: Sal KC, Kemihuset, Chalmers**

**Anmälan: Ingen anmälan krävs.**

Det går bra att ta med egen lunch att äta under föredraget. Macka, sallad m.m. kan köpas hos Kafé Hedvalls i Kemihuset och tas med in i salen.

**Titel: Extreme limitations: making analytical tests for field use in hostile environments**

Advances in technology have enabled portable instruments of nearly every type, bringing high-tech devices to the field. What if what is needed are low-tech options? War and disaster zones, certain crime scenes, remote locations, and constrained communities often require analytical tests that are closer to low-tech classical color tests, but with increased accuracy and reliability. Dr. Burks will discuss her work developing and re-making color tests that must perform under extreme limitations, but also employ optional higher tech add-ons. In the area of constrained lab conditions, Dr. Burks will also discuss her lab's work in the chemical processing of latent fingerprints that features the unique use of a popular over-the-counter medicine.

*After a few years working in a crime lab, Dr. Burks returned to academia, teaching, and forensic science research. An analytical chemist, Dr. Burks enjoys the challenge developing detection methods for a wide-variety of analytes including regulated drugs and explosives. Her current research efforts are focused on the design, fabrication, and analysis of colorimetry sensors that are field portable. To maximize portability, Dr. Burks works on utilizing smart phones as scientific analytical devices. A chemistry enthusiast, Dr. Burks hopes to ignite her students' appreciation of chemistry through innovative projects, multi-media education tools, and probably far too many pop culture references. She help create and organize SciPop Talks!, a popular talk series blending science and pop culture. Dr. Burks is a popular science communicator, appearing on the Science Channel's Outrageous Acts of Science, ACS Reactions videos, Royal Society of Chemistry podcasts, and at genre conventions such as DragonCon and GeekGirlCon.*

<https://www.stedwards.edu/directory/employees/raychelle-burks>

Föreläsningen är del av en föreläsningsserie som anordnas av kemiinstitutionerna på Chalmers och Göteborgs Universitet, där alla som arbetar i Kemihuset bjuds in. Denna gång står Göteborgskretsen som en av värdarna och därmed bjuds även medlemmar in. Vänligen observera att föreläsningen ges på engelska.

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**Varmt välkomna önskar Göteborgskretsens styrelse**