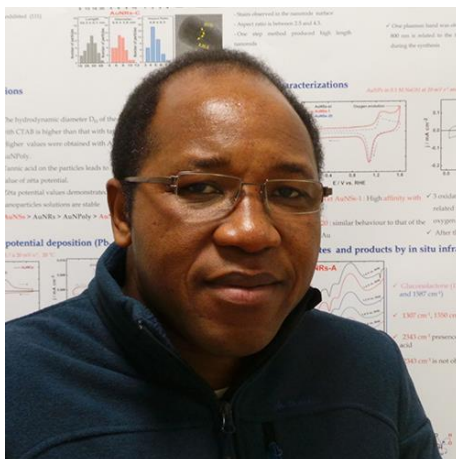


Department of Chemistry

Departmental Seminar: Energy Research

You are cordially invited to a lecture presented by



Prof. Teko Napporn

**Co-Leader SAMCat Research Team, IC2MP UMR 7285 CNRS
University of Poitiers, France**

Date: Friday, 17th June 2022
Time: 11h30 – 12h30
Venue: Orbital
Enquiries: christine.mundy@up.ac.za

Nanomaterials synthesis for different applications in Electrocatalysis

Due to their high surface to volume ratio, the nanomaterials play an important role in electrocatalysis. They offer a high surface area which various active sites can be tuned by targeted synthesis methods. In this seminar, various synthesis methods used for designing nanoparticles for electrocatalysis for energy applications for example alcohols electrosynthesis, fuel cells and water electrolyzer will be presented. The key parameters which affect their electrochemical activity will highlighted and discussed.

Short CV of Prof. Napporn

Dr. Teko W. Napporn, is currently co-leader of SAMCat research team (29 professors) and senior Researcher of French National Center of Scientific Research (CNRS) at Institut de Chimie des Milieux et Matériaux de Poitiers IC2MP (University of Poitiers, France). He graduated in 1997 from University of Poitiers with PhD in electrochemistry and electrocatalysis. The same year, he joined as post-doctoral fellow, the Electrocatalysis Group of the Chemistry Institute of Sao Carlos at University of Sao Paulo (Brazil), and later in 1999, the Ecole Polytechnique de Montreal (Canada) as Research Associate. There, he had studied and developed the single chamber SOFC system in collaboration with Hydro-Quebec. In 2008 he got a tenure position at CNRS for developing novel nanomaterials for

electrocatalysis especially for application in energy conversion and storage systems. He participated/managed various projects in the field and authored/co-authored >125 publications and 16 book chapters and editor of 3 books in the field. Since 2015, he has been involving as Adjunct professor at the Institute of Advanced Science of Yokohama National University (Japan) to design innovative materials for fuel cell and water electrolyzer.