

# Biomass Utilization for Energy, Food and Water

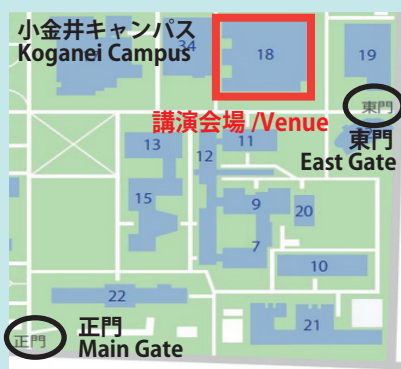


**Dr. Naoko Ellis, Ph.D., PEng.**  
Professor, Chemical and Biological Engineering  
The University of British Columbia (UBC), Canada

**Tuesday**  
**March 3, 2020**  
**16:00 ~**

## ■会場/Venue

東京農工大学 小金井キャンパス  
BASE本館2階 リーディングセミナー室  
Leading Seminar Room, 2nd Fl.,  
BASE, Koganei Campus, TUAT



## ■共催/Co-Organized by

グローバルイノベーション研究院  
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言語 / 英語 ・ Language / English  
関連する教員のみで参加頂けます。  
For involved faculties only.

## ABSTRACT

In this talk, biomass as the nexus of energy, food and water will be introduced through a collection of research projects related to biomass utilization. Biomass, an abundant renewable resource in Canada, is thermochemically converted to products as the first step. The products of these conversions, i.e., syngas, bio-oil and biochar, are utilized as energy, soil amendment and water treatment.

This talk will examine some of the current challenges and drivers for biomass utilization in the context of the province of British Columbia. Furthermore, campus as a living lab presents a viable model to connect emerging technology developers to academic researchers.

Through continued discussions, it is hoped that some of the research topics will catalyze stronger research collaborations between TUAT and UBC.

## Biography

Dr. Naoko Ellis is a professor in the UBC Department of Chemical and Biological Engineering with a profound desire to help create a low carbon future. Her commitment to a sustainable future is evident in her research interests, which include biomass utilization (bio-oil upgrading, biochar potential, and hydrogen production), sustainability leadership, CO2 capture (chemical looping systems), and transdisciplinary learning. She is curious about how learning with and from "others" - crossing the disciplinary boundaries - can inform and frame the complex societal problems we face.

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