

2016 SATU Joint Research Scheme Program

Host Application Form

Date: 2016/ 04/ 26 (year /month/day)

1. Host University

National Taipei University of Technology

2. Host Unit

Institute of Environmental Engineering

3. Joint Research Project Title

Application of Forward Osmosis for environmental application

4. Principal Investigator

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5. Co- PI from the same unit – If any

Passport Name			
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Address			
Telephone	(Office)	(Home / Mobile)	
Fax Number		E-mail	

6. Project Details

Project Description	Forward osmosis (FO) is a process of water driven by the osmotic pressure difference across the semipermeable membrane without the aid of external energy. Unlike other membrane process such as NF and RO, the no/less energy consumption of FO makes it possible to
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SATU Presidents' Forum

of Southeast and South Asia and Taiwan Universities
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be a promising technology. However, the application of FO relies on two critical concepts: (1) an ideal draw solutes should have high osmotic pressure and should be easily separated and (2) a good FO membrane process should be able to reduce the concentration polarization to enhance permeate flux. Therefore, it is still a pressing demand to find an ideal FO draw solution and way to reduce concentration polarization. Therefore, novel draw solution will be applied in this proposed research.

7. Acknowledgement (Signed by the President or SATU representative to show recognition)

Name *Chaochin Su*
title *Dean of R&D Center*



(signature)

Date: *2016 / 04 / 27* (yyyy/mm/dd)

Please email satu@email.ncku.edu.tw before 2016.4. 29(Fri.) for application with the subject line: < 2016 SATU JRS host application –School Name>. Thank you.