

## **Thinesh Selvaratnam, Ph.D.**

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### **EDUCATION**

- **Ph.D. Civil Engineering**, New Mexico State University, USA, 2014
- **M.S. Water and Environmental Engineering**, University of Surrey, UK, 2011
- **B.S. Civil Engineering**, University of Peradeniya, Sri Lanka, 2009

### **PROFESSIONAL EXPERIENCE**

- **Assistant Professor** Sep 2017 - present  
Department of Civil and Environmental Engineering, Lamar University, Beaumont, TX
- **Instructor** Fall 2016  
Ira A. Fulton Schools of Engineering, Arizona State University, Tempe, AZ
- **Postdoctoral Research Associate**

## **RESEARCH**

## Book Chapters

1. T. Nawas, **T. Selvaratnam**, Chapter 7 - Resource Recovery from Reverse Osmosis Concentrate as a Solution to Water Crisis: A Technological Assessment, in: V.G. Gude, V. Gadhamshetty, R. Kandiah (Eds.) Sustainable Water: Resources, Management and Challenges, Nova Science Publishers, Inc., NY, USA, 2020, pp. 267.
2. N. Rashid, **T. Selvaratnam**, W.-K. Park, Chapter 21 - Resource Recovery From Waste Streams Using Microalgae: Opportunities and Threats, in: A. Yousuf (Ed.) Microalgae Cultivation for Biofuels Production, Academic Press, 2020, pp. 337-351.
3. **Selvaratnam, T.**, Pegallapati, A., Montelya, F., Rodriguez, G., Khandan, N., Lammers, P., Van Voorhies, W. 2014. Feasibility of Algal Systems for Sustainable Wastewater Treatment. in: ICREGA'14 - Renewable Energy: Generation and Applications, (Eds.) M.O. Hamdan, H.A.N. Hejase, H.M. Noura, A.A.

15. P.J. Lammers, **T. Selvaratnam**, S.M. Henkanatte-Gedera, M. Seger, S. Deng, T. Muppaneni, N. Nirmalakhandan. *Municipal wastewater treatment with a Red Algal extremophile, Galdieria sulphuraria*. The 5th International Conference on Algal Biomass, Biofuels & Bioproducts, San Diego, USA, June 2015
16. S.M. Henkanatte-Gedera, **T. Selvaratnam**, N. Nirmalakhandan, W.V. Voorhies, P.J. Lammers. *Algal system for BOD and nutrient removal from urban wastewater*. The 5th International Conference on Algal Biomass, Biofuels & Bioproducts, San Diego, USA, June 2015 (Poster)
17. **T. Selvaratnam\***, N. Nirmalakhandan, Peter J. Lammers. *Energy efficient urban wastewater treatment using Galdieria sulphuraria*. 249th ACS Denver National Meeting. Denver, Colorado, USA, 22-26, 2015
18. Tapaswy Muppaneni, Kodanda Phani Raj Dandamudi, **Thinesh Selvaratnam**, Nirmala Khandan, Tanner Schaub, Barry Dungan, Francisco Holguin, Peter Lammers, Wayne Voorhies, and Shuguang Deng. *Sequential Hydrothermal Liquefaction of Galdieria Sulphuraria Algal Biomass to Enhance Biocrude Oil Yield*. AIChE Annual Meeting, Salt Lake City, UT, 2015.
19. Peter J Lammers, **T. Selvaratnam**, N. Nirmalakhandan, Harvind Reddy, and Shuguang Deng. A Route to Algal Biofuels via EcoSystem Services: *The Case for an Extremophile, Galdieria sulphuraria*. 2nd International Symposium on Energy Challenges & Mechanics, Aberdeen, Scotland, UK, August 19-21, 2014
20. **T. Selvaratnam\***, A. Pegallapati, N. Khanmmer, 006 Tc 0.9tat, Aerd N.2-5.8 (82 TID 18 4 0 52(n)3.8 (3.4 (s)-4 Td[

## **SERVICE**

### **Professional Service**

- National Committee memberships or Associations
  - Member, Communication Committee, Algal Biomass Organization, 2017-current
  - Member, Municipal Resource Recovery Design Committee, Water Environment Federation, 2019-current
  - Member, Water Pollution Engineering Committee, EWRI-ASCE, 2019-current
- National Professional Society Membership
  - Member, American Society of Civil Engineers (ASCE)
  - Member, Association of Environmental Engineering & Science Professors (AEESP)
- Journal Editorial Board
  - Associate Editor, Global Journal of Engineering Sciences
  - Reviewer Board Member, Sustainability Journal (MDPI)
- Journal/Conference Paper Reviewer
  - Reviewer, Algal Research
  - Reviewer, Renewable Energy
  - Reviewer, Process Biochemistry
  - Reviewer, Energy Conversion and Management
  - Reviewer, Applied Energy
  - Reviewer, Frontiers in Microbiology – Extreme Microbiology
  - Reviewer, MDPI Journals (Biology, Water, Sustainability, International Journal of Environmental Research and Public Health, Resources, and Applied Sciences)
- Service as a Commentator, Panelist, Discussant at Professional Meetings
  - Panel Reviewer, NSF-CBET Proposals, 2017-2018
  - Course Validation and Certification for Texas International Education Consortium: Smart City Professional (TIEC), 2018
  - Panelist, 10th Annual Conference, Texas Hurricane Center, University of Houston, Aug-2018

### **University Service**

- Lamar University
  - Lamar University SURF Proposal Reviewer, 2018
  - Judge, Fifth Annual Undergraduaam-0.009 T Td( a.4 (n)9.8 (d)67 (e C)27 n)9.8 e.2 (e,)05 0 Td[J] 110(e)m,aaes

- College of Engineering
  - Member, Freshman and Sophomore student retention committee, 2018-present