

## CV

### EBENEZER AFRAM ASAMANY

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#### EDUCATION

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**PhD:** Dalhousie University, Chemical Engineering 2013-  
Thesis: Characterization of waste derived fuels for co-combustion in rotary cement kilns.  
Committee: Dr. Michael Pegg (supervisor), Dr. Mark Gibson, Dr. Jan Haelssig, Dr. Don Jones

**MEng** Dalhousie University, Petroleum Engineering 2009 to 2010  
Project: Description of relative permeability characteristics of surfactant-polymer flooding as a secondary enhanced oil recovery method  
Advisor: Dr. Michael Pegg

**BSc** Kwame Nkrumah Univ. of Science & Technology, Chemical Engineering 2004-2008  
Graduated 10/85; in class with Second Class Upper.

#### ADDITIONAL TRAINING

**Petroleum reservoir modeling and simulation (PETREL and ECLIPSE)**  
Schlumberger Information Systems, Calgary, Alberta  
March to April 2011

**Petroleum economics software (MERAK)**  
Schlumberger Information Systems, Calgary, Alberta  
March to April 2011

#### HONORS AND AWARDS

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Nova Scotia Research and Innovation Graduate Scholarships	2014
Nova Scotia Energy R&D Conference Award for best poster in the Alternative Energy and Sustainability category	2014
MITACS Accelerate Internship fellowship	2011
Resource recovery fund board grant for innovation in renewable energy research	2011

## RESEARCH EXPERIENCE

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### **Dalhousie University**

#### **Project Co-investigator**

Feb 2014 to Aug 2014

Research project: Tube furnace characterization of mixed waste plastics as fuel for use in cement kilns

### **Lafarge Cement Canada Inc., Brookfield NS**

May 2011 to April 2013

#### **Research intern**

- Studied the operations and management of parameters affecting performance of cement kilns
- Tested and evaluated various waste to fuel delivery approaches in the rotary cement kilns

### **Dalhousie University, Halifax NS**

Sept 2009 to Dec 2009

#### **Research assistant, Petroleum engineering Lab**

- Studied multiphase flow via experiments in core analysis and surfactant flooding
- Studied of the effect of water flood compositions on formation damage of reservoir rocks

## TEACHING AND ENGINEERING

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### **Dalhousie University, Halifax NS**

2011 to 2013

#### **Session Instructor, Process Engineering and Applied Science**

- Taught reservoir modeling and simulation as part of a graduate seminar course with a class of between 8 to 20 masters in petroleum engineering students per semester,
- Developed quizzes and moderated presentations for this course

### **Dalhousie University, Halifax NS**

Falls 2011, 2012

#### **Marker, Process Engineering and Applied Science**

- Graded assignments and invigilated exam for a course in thermo-fluids for over a hundred first year engineering students i chemistry

### **Dalhousie University, Halifax NS**

Winter 2010

#### **Teaching Assistant, Process Engineering and Applied Science**

- Graded a course in industrial chemistry for second year chemical engineering students
- Planned and organized a field trip for the class under the leadership of the course instructor

### **Ghana national petroleum corporation, Ghana**

2008- 2009

#### **Junior Petroleum Engineer**

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## **PRESENTATIONS & PUBLICATIONS**

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### **Reports**

1. Co-authored reports to Lafarge Cement Inc.(2015):

A. 'Characterization of waste plastics as fuel for cement kilns'

B. 'Use of scrap tires as an alternative fuel source at Lafarge cement kiln, Brookfield, Nova Scotia, Canada'

2. Report to the Resource Recovery Fund Board, Nova Scotia (2013):

'Practical approaches to the increased use of waste roofing shingles for co-firing in cement kilns'

### **Accepted Abstracts:**

Air & Waste Management Association annual conference, Asamany, E., Pegg, M.J., Gibson, M.D. (2015) 'Characterization of waste plastics as fuel for cement kilns'

**Poster presentation: Nova Scotia Energy R&D Conference (May 2014)**

An approach to the increased use of waste shingles as supplementary fuels in rotary cement kilns

**Oral Presentation: Resource recovery Fund Board Research symposium (Nov 2011)**

Increased use of roofing asphalt shingles as fuel in cement kilns

## **INTERESTS AND ACTIVITIES**

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### **Volunteering**

- Ghana Association of Nova Scotia
- African Diaspora Association of Nova Scotia
- All Nations Full gospel church International Choir

### **Conferences, Seminars & Symposia Attended**

- Dalhousie University Engineering speaker series
- Dalhousie Process engineering and applied science annual graduate seminar
- Shell field trip on petroleum system analogs (Nova Scotia)
- International Symposium of Society of Core Analysts
- Maritime energy annual energy conference, Halifax, Nova Scotia
- Nova Scotia Energy R&D Conference
- RRFB Annual Research Symposium

### **Extra-curricular**

- Captain at 'Halifax plays' adult soccer League
- Event Organizer with Ghana Association of Nova Scotia
- Enjoy Travelling, cooking, acting and sports cheering.

**REFERENCES AVAILABLE UPON REQUEST**