


**City of Seattle
Notice of Appointment**

Name: Dr. Tara Henriksen		<input type="checkbox"/> Executive Appointment <input checked="" type="checkbox"/> Reappointment <input type="checkbox"/> Legislative Appointment <input type="checkbox"/> Agency Appointment <input type="checkbox"/> PDA Council <input type="checkbox"/> PDA Constituency
Residential Neighborhood: Seattle	Zip Code: 98125	Contact Phone No.: [REDACTED]
Appointed to: Fire Code Advisory Board, Chemical Engineers Representative		Date of Appointment: August 14, 2015
Authority (Ord., Res.): Ord. No. 124707		Term of Office: From: August 31, 2015 To: August 31, 2018
<p>Background: Dr. Tara Henriksen holds a doctorate in chemical engineering. She is a company Principal and Chemical Engineer at Case Forensics, and specializes in the evaluation of engineering and process safety issues related to hazardous materials and chemical technology. Dr. Henriksen has direct knowledge of many relevant areas regulated by the Seattle Fire Code, including combustible liquids, fuel dispensing facilities, and flammable finishes. She is a certified fire and explosion investigator who evaluates and analyzes chemical processes, heat transfer, and fire dynamics to investigate and prevent industrial fires and accidents.</p> <p>Dr. Henriksen brings a successful track record working on technical boards, including serving on the two National Fire Protection Association (NFPA) technical committees: Hydrogen Technology (2010) and Vehicular Alternative Fuel Systems (2010-present). She is also a member of the International Association of Arson Investigators, the National Association of Fire Investigators, and a senior member of the American Institute of Chemical Engineers.</p>		
Authorizing Signature: 		Name and Title of Officer Making Appointments: Mayor Edward B. Murray

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 CITY OF SEATTLE
 2015 AUG 19 PM 3:05
 CITY CLERK

TARA HENRIKSEN, PhD, CFI, CFEI, PI

Principal, Chemical Engineer

thenriksen@case4n6.com

Seattle Office 425.775.5550



SUMMARY

Dr. Tara Henriksen is a company Principal and Chemical Engineer who specializes in the evaluation of engineering and process safety issues related to hazardous materials and chemical technology, specifically those associated with large chemical plant process failures, and product hazards. She holds a Ph.D. in Chemical Engineering from the University of Utah.

Dr. Henriksen is also a Certified Fire and Explosion Investigator who uses her knowledge of fire dynamics, heat transfer, fluid mechanics, chemistry, and chemical engineering to conduct origin and cause investigations, and explosion analyses. Dr. Henriksen has experience with the analysis of failure mechanisms related to chemical processes and industrial equipment, fuel systems, vapor cloud explosion and accidental chemical releases. She applies her knowledge of chemical engineering to investigate industrial, residential and wildland fires. Dr. Henriksen has extensive experience investigating sawmill fires and explosions, evaluating flammable gas and dust explosion hazards, investigating heat exchanger failures, and evaluating spontaneous combustion allegations. Dr. Henriksen evaluates incidents and equipment failures in the food and beverage, agricultural, oil and gas, cosmetics, plastics, pharmaceutical, utilities and alternative energy industries. She has investigated many issues of design defect and patent infringement and has opined regarding the cause of accidents related to personal injury claims, such as flammable liquids, fuel gels, chemical burns, and others.

Dr. Henriksen contributes to the writing of standards and codes, including NFPA standards, and the City of Seattle Fire Code. Her research expertise also includes the optimization of chemical process operations, process hazard analysis (PHA), layer of protection analysis (LOPA) and risk assessment. Dr. Henriksen's doctoral research encompassed the study of hydrocarbon pool fires, inverse diffusion flames, premixed flames, and laminar diffusion flames. She specialized in the application of laser diagnostics in the analysis of combustion reactions, refractive index, and the evaluation of the puffing frequency of pool fires. Dr. Henriksen has experience designing and conducting small and medium scale fire and explosion tests, and has evaluated combustion processes using flow visualization and design software.

EDUCATION

University of Utah, Doctor of Philosophy, Chemical Engineering, 2007

University of Utah, Bachelor of Science, Mathematics, 2003

University of Utah, Associate of Science, Chemistry, 2003



LICENSES, CERTIFICATIONS AND REGISTRATIONS

Licensed Unarmed Private Investigator, Nevada, No. R-055591
EIT Certification, state of Illinois, No. 061.033904
Certified Fire Investigator, NAFI, No. 21-050229
Certified Fire and Explosion Investigator, NAFI, No. 14035-7798
Hazardous Waste Operations and Emergency Response (HAZWOPER) Certification, IESMC
CPR and AED Certifications, American Heart Association
FI-210 Wildland Fire Investigation, Fire Origin and Cause Determination, NWCG, 2013
Emergency Response Certification, Fire Investigation 1A, IESMC
DOT HM-126F Hazardous Materials Certification, DOT
Fundamentals of Process Safety Certification, ASME

PROFESSIONAL EXPERIENCE

CASE Forensics, Mountlake Terrace, WA, 2010 to present

Principal, Chemical Engineer

Evaluates engineering and safety issues related to hazardous chemical accidents and chemical technology. Conducts fire origin and cause and explosion analysis using knowledge of fire dynamics, heat transfer, fluid mechanics, chemistry, and chemical engineering. Applies knowledge of chemical engineering to investigate and prevent accidents. Specializes in the evaluation of engineering and safety issues related to hazardous chemicals accidents and chemical technology. Conducts investigations that involve the evaluation and failure analysis of chemical processes and industrial equipment, dust explosions, vapor cloud explosion, personal injury claims and accidental chemical releases, as well as design defect and patent infringement.

AICHE, New York, NY, 2009 to Present

National Safety Coordinator

National Safety Coordinator for the annual CHEM-E-car competition series, which is sponsored by the American Institute of Chemical Engineers. This design competition involves innovative chemically-powered cars designed by student teams from colleges and universities across the United States. Dr. Henriksen is responsible for enforcing the safety standards of the program, drafting and reviewing job safety analysis (JSA) templates for entrants, testing student's core engineering competency, evaluating the hazards inherent in design, and updating competition safety standards as appropriate.

Exponent FAA, Chicago, IL, 2008 to 2010

Engineering Consultant

Applied knowledge of chemical engineering principles to chemical processing, forensics and product liability cases. Specialized in origin and cause evaluation as it applied to the chemical processing industry. Analyzed engineering and safety issues related to hazardous chemical accidents and chemical technology against industry standards. Conducted investigations involving the evaluation and failure analysis of chemical processes and industrial equipment, dust explosions, and chemical releases. Research expertise included the optimization of chemical process operations, process hazard analysis (PHA), layer of protection analysis (LOPA) and risk assessment. Served as a project manager on several

origin and cause investigations, where she managed schedule, cost, personnel, and quality of deliverables.

University of Utah, Salt Lake City, UT, 2004 to 2007

Graduate Research Assistant

Researched the study of hydrocarbon pool fires, inverse diffusion flames, premixed flames, and laminar diffusion flames. Specialized in the application of laser diagnostics in the analysis of combustion reactions, refractive index, and the evaluation of the puffing frequency of pool fires. Utilized laser-induced incandescence to study soot concentration, and laser induced fluorescence to study the location of the reaction zone relative to soot sheets in turbulent pool fires. Experienced with designing and conducting small and medium scale fire tests and evaluating combustion processes using flow visualization and design software.

National Science Foundation, Arlington, VA, 2001 to 2003

Research Analyst

Forged a collaboration between the Cystic Fibrosis Foundation and the University of Utah Math Department to model complex systems, analyze system dynamics and survival probabilities for patients with CF. Tested the accuracy of the single year assessment of the health of patients with CF by validating 5 dependent variables within the survival probability model.

RELATED EXPERIENCE

ChFE 3353 Fluid Mechanics, University of Utah, Salt Lake City, UT, Fall 2006

Teaching Assistant

This class comprised an introduction of fluid statics; application of conservation of mass, energy, and momentum to basic fluid mechanics problems; introduction to compressible flow, potential flow, boundary layer and dimensional analysis.

ChFE 6353 Fluid Mechanics, University of Utah, Salt Lake City, UT, Fall 2005

Teaching Assistant

This course provided an introduction to tensor analysis and derivation of governing partial differential equations. Solution of problems in Newtonian, laminar, incompressible flow are taught. Advanced experience on problems of potential flow, turbulence, non-Newtonian flow, and compressible flow.

Engineering Matters, Youth Education, Salt Lake City, UT, Summer 2005, Summer 2006

Professor

The goal of this course was to learn about engineering as a career. Students were taught basic engineering principles; electricity, electrolysis, forces of gravity and drag, energy, chemical properties, and safety. They were educated about the various career paths in engineering, and were exposed to civil, mechanical, electrical, chemical and environmental engineering subjects, activities and demonstrations.

PUBLICATIONS

Henriksen, T. Warren, C, and Lewis, K. (2015) Relative Humidity and Wildland Fire Ignition by Cigarettes, Fire and Materials, 14th International Conference, February 2015.

Henriksen, T. (In Press) Clinical Trials within the U.S. – Skin Transplants (burns). Encyclopedia of Stem Cell Research, 2nd Edition.

Henriksen, T. (In Press) University of Washington/Hutchinson Cancer Center. Encyclopedia of Stem Cell Research, 2nd Edition.

Henriksen, T., Way, P. (2011) An Assessment of the Ability of Light Bulbs to Ignite Various Types of Cardboard. Fire and Materials, 12th International Conference, January 2011.

Henriksen, T., Lewis, K., Biggerstaff, N. (2010) Case Study: Safety device failure results in tanker BLEVE, Atlas Foundry Explosion. Mary Kay O'Connor Process Safety Center International Symposium, p. 560, October 2010.

Henriksen T.L., Nathan G.J., Alwahabi Z.T., Qamar N., Ring T.A., and Eddings E.G. (2009) Planar Measurements of Soot Volume Fraction and OH in a JP-8 Pool Fire. Combustion and Flame, 156 (7), 1480-1492, 2009.

Henriksen T.L., Nathan G.J., Ring T.A., and Eddings E.G. (2008) Puffing Frequency and Soot Extinction Correlation in JP-8 and Heptane Pool Fires. Combustion Science and Technology, 180 (4) 699-712, 2008.

Henriksen T.L., Nathan G.J., Alwahabi Z.T., Spinti J., Smith P.J., and Eddings E.G. (2005) Soot Volume Fraction from Extinction in JP-8 and Heptane Pool Fires. 4th Australian Conference on Laser Diagnostics in Fluid Mechanics and Combustion, The University of Adelaide, South Australia, December 7-9, 2005.

PRESENTATIONS

Henriksen, T. Warren, C, and Lewis, K. (2015) Relative Humidity and Wildland Fire Ignition by Cigarettes, Fire and Materials, 14th International Conference, February 2015.

Henriksen T.L. (2014) Tragic Chemical Accidents, Combustible Dust Hazards. American Chemical Society, ACS Webinar, September 2014.

Henriksen T.L., Way, Paul T. (2014) Wildland Fire. Wildland Fire Summit, Las Vegas, NV, June 2013.

Henriksen T.L., Lewis, K. (2013) Assessing the Potential of Hot Particles to Ignite Wildland Fires, Interscience Communications. 13th Annual Fire and Materials Conference, San Francisco, CA, January 2013.



Henriksen T.L. (2012) Capstone Safety & Toxicology Course Methodologies. American Institute of Chemical Engineers (AIChE). AIChE National Meeting, Pittsburgh, PA.

Henriksen T.L. (2012) Process Safety Workshop: CHEMEX. American Institute of Chemical Engineers (AIChE). AIChE National Meeting, Pittsburgh, PA.

Henriksen T.L. (2011) Investigating Wildland Fires. CASE Forensics. CASE Forensics Internal Training Seminar, Seattle WA.

Henriksen T.L. (2011) Applying Engineering Concepts in Forensics. University of Utah. Graduate Combustion, University of Utah.

Henriksen T.L. (2011) The CHEMEX Car Competition: Furthering Undergraduate Education in Process Safety. American Institute of Chemical Engineers (AIChE). AIChE National Meeting, Salt Lake City, Utah.

Henriksen T.L. (2010) The CHEMEX Car Competition: Furthering Undergraduate Education in Process Safety. American Institute of Chemical Engineers (AIChE). AIChE National Meeting, Salt Lake City, Utah.

Henriksen T.L. (2007) Determination of Soot Refractive Index as a Function of Height in an Inverse Diffusion Flame. 5th US Combustion Meeting, Western States Section of the Combustion Institute, San Diego, CA.

Henriksen T.L. (2005) Soot Volume Fraction from Extinction in JP-8 and Heptane Pool Fires. WSS/CI Fall Meeting, Stanford, CA.

CONTINUING EDUCATION AND TRAINING

- *8th Annual Wildland Fire Litigation Conference*, Monterey, April 2014
- *The Chemistry of Chocolate*, AIChE, 2013
- *Flame Flashbacks: Causes and Prevention*, AIChE, 2013
- *Human Factors and their Impact on Plant Safety*, Control Engineering, 2013
- *Asbestos Awareness Training*, RGA Environmental, 2012
- *Combustible Dust Hazard Assessment*, 3D Instruments LLC, 2012
- *NFPA Conference*, National Fire Protection Association, 2012
- *Process Safety for the Biofuels Industry*, Center for Chemical Process Safety (CCPS), 2011
- *Mary Kay O'Connor Process Safety Center International Symposium*, Texas Engineering Experiment Station, 2010
- *The International Symposium on Fire Investigation Science and Technology*, University of Cincinnati, 2008
- *Explosion Dynamics*, CFITrainer.net, 2012
- *Wildland Fire Investigation*, CFITrainer.net, 2011
- *Fundamentals of Residential Building Construction*, CFITrainer.net, 2011
- *NFPA Conference*, National Fire Protection Association, 2011
- *Preparation for the Marine Fire Scene*, CFITrainer.net, 2010

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Principal, Chemical Engineer, CASE Forensics Corporation

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- *NFPA Conference*, National Fire Protection Association, 2010
- *Post flashover Fires*, CFITrainer.net, 2009
- *Understanding Fire through the Candle Experiments*, CFITrainer.net, 2009
- *Managing Complex Fire Scene Investigations*, CFITrainer.net, 2009
- *Vacant and Abandoned Buildings: Hazards and Solutions*, CFITrainer.net, 2009
- *A Ventilation-Focused Approach to the Impact of Building Structures and Systems on Fire Development*, CFITrainer.net, 2009
- *Investigating Fatal Fires*, CFITrainer.net, 2009
- *Critical Thinking Solves Cases*, CFITrainer.net, 2009
- *Insurance and the Fire Investigation*, CFITrainer.net, 2009
- *Introduction to Evidence*, CFITrainer.net, 2009
- *Effective Investigation and Testimony*, CFITrainer.net, 2009
- *Critical Thinking Solves Cases*, CFITrainer.net, 2009
- *Insurance and the Fire Investigation*, CFITrainer.net, 2009
- *Introduction to Evidence*, CFITrainer.net, 2009
- *Effective Investigation and Testimony*, CFITrainer.net, 2009

SOCIETIES AND MEMBERSHIPS

Air & Waste Management Association (AWMA)

American Institute of Chemical Engineers (AIChE)

Combustion Institute USA Western States

International Association of Arson Investigators (IAAI)

International Association of Arson Investigators Washington Chapter (IAAI)

National Association of Fire Investigators (NAFI)

National Fire Protection Association (NFPA)

Committee Member, Hydrogen Technology 2010

Committee Member, Vehicular Alternative Fuel Systems 2010 to present

Organization of Scientific Area Committees, Subcommittee on Fire Scene and Explosives (OSAC) 2015

Seattle Fire Code Advisory Board Member, 2012-present



AGENDA

Revised

Somali Health Board

Wednesday, August 19th, 2015

6:00 p.m. – 8:00 p.m.

New Holly Library

7058 32nd Ave South # 104

Seattle, WA 98118

6:00 p.m. – 6:15 p.m.	Welcome and Introductions <ul style="list-style-type: none">○ Review of May 20th meeting minutes	<i>Safiyah Ismail</i>
6:15 p.m. – 6:30 p.m.	SHB Program Updates <ul style="list-style-type: none">○ <i>Medical Mission: Somalia</i>○ <i>Daryel & SHB</i>○ <i>2015 Health Fair</i>○ <i>EthnoMed Project Updates</i>	<i>Ahmed Ali and Mohamed Ali</i>
6:30 p.m. – 6:50 p.m.	SHB Administrative Updates <ul style="list-style-type: none">○ 501c3○ Save the Date: US Conference of African Immigrant Health -3, Seattle Dec 3 – 6, 2015	<i>Mohamed Ali</i>
6:50p.m. – 7:40 p.m.	Hookah/Shisha Discussion <ul style="list-style-type: none">○ Discussion with API community leaders	<i>Ahmed Ali</i>
7:40p.m. – 7:50 p.m.	Announcements <ul style="list-style-type: none">○ Quarterly meeting schedule○ WA DOH Women, Infants and Children's Program (WIC)	<i>Safiyah Ismail</i>
7:50 p.m. – 8:00 p.m.	Adjournment <ul style="list-style-type: none">○ Next meeting: November 19th 2015 (Tentative)	<i>Ahmed Ali</i>

Thank You

Somali Health Board

Vision

We envision a healthy King County in which health systems and service providers work together with Somali communities and Somali health professionals to promote positive health outcomes.

Mission

To improve health outcomes in King County Somali communities through:

- Meaningful partnership development
- Mutual education of providers and community leaders
- Advocating for culturally appropriate and relevant policies and services.

Goals

- Create a forum to build relationships between health systems (e.g. hospitals, community health centers, Public Health), services (e.g. food banks, housing) and Somali community and health leaders
- Identify key health conditions; concerns and questions
- Identify and address systems issues that impact access and the Somali experience of health care and treatment
- Provide opportunities for mutual education
- Formalize mechanisms to communicate key health and safety information to Somali residents in King County
- Act as an advisory group to offer recommendations to health and governmental systems to better serve Somali people in King County
- Create a space for Somali health professionals to work together.

SHB Leadership Team

Executive Director: Dr. Ahmed Ali

Vice Chair: Safiyah Ismail

Treasurer/Project Manager: Mohamed Ali

Secretaries: Hodan Rage, Hannah

Prenatal Subcommittee Chair: Fardous Guled

Community Liaison: Aisha Dahir



Fire Code Advisory Board

As of July 2015

Fifteen members: Per Ordinance 124707, all subject to City Council confirmation, three year terms, no term limits

- 15 Mayor-appointed

Roster:

*D	**G	Position No.	Position Title	Name	Term Start Date	Term End Date	Term #	Appointed By
	M	1.	Architects	James R. Fair	03/30/2015	03/30/2018	3	Mayor
	F	2.	Chemical Engineers	Tara Henriksen	8/31/2015	8/31/2018	2	Mayor
	F	3.	Mechanical Engineers	Rae Anne Rushing, PE	03/30/2015	03/30/2018	4	Mayor
	M	4.	BOMA	Todd Sparrow	03/30/2015	03/30/2018	2	Mayor
	M	5.	Insurance Industry	Jeffrey Rice	11/13/2013	11/13/2016	1	Mayor
	M	6.	Marine Industry	Allen Rainsberger	03/30/2015	03/30/2018	4	Mayor
	M	7.	Port of Seattle	Jason Johanson	5/27/2014	5/27/2017	1	Mayor
		8.	Manufacturing/ Warehouse	Vacant				Mayor
	M	9.	Research/ Labs	David Moore	03/30/2015	03/30/2018	2	Mayor
	M	10.	Fire Protection Industry	James Moren	10/31/2012	10/31/2015	2	Mayor
	M	11.	Public	Lucas Grothkopp	03/30/2015	03/30/2018	3	Mayor
	M	12.	Public	Steven Potokar	5/27/2014	5/27/2017	1	Mayor
	M	13.	Labor	Scott Peterson	5/27/2014	5/27/2017	1	Mayor
		14.	Major Institutions	Vacant				Mayor
		15.	Services Industry	Vacant				Mayor

Diversity Chart:

			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
	Men	Women	Vacant	Minority	Asian-American	Black/African American	Hispanic/Latino	American Indian/Alaska Native	***Other	Caucasian/Non-Hispanic	Pacific Islander	Middle Eastern	Multiracial
Mayor	10	2	3							12			
Council													
Other													
Total													

Key:

*D List the corresponding *Diversity Chart* number (1 through 9)

**G List *gender*, M or F

***Other Includes diversity in any of the following: *race, gender and/or ability*