

CURRICULUM VITAE

1. NAME:

Department/School/Program: Chemical Engineering

Present Rank/Title: Associate Professor (P.Eng.)

Date Tenured: January, 2017

Date of Appointment: November, 2011

2. ACADEMIC & PROFESSIONAL QUALIFICATIONS:

Degree	University	Year	Thesis Title (if any)
PhD	University of British Columbia (Canada)	2009	Development of UV Photoreactor Models for Water Treatment
MSc	Chalmers University of Technology (Sweden)	2003	Modeling of UV reactor for Water Disinfection
MSc	Tarbiat Modares University, (Iran)	1997	H2S Removal from Tanning Leather Industries Using Biofilter
BSc	Sharif University of Technology (Iran)	1985	Simulation of Fire-Heater in Oil Refinery

3. CHRONOLOGICAL ACCOUNT OF CAREER:

Appt Dates	Position	Employer
2011-Current	Associate Professor	Lakehead University
2010-2011	Post-Doctoral Fellow	University of British Columbia
2009-2010	Research Engineer	Membrane Reactor Technology LTD. Vancouver (Canada)
2003-2009	PhD Candidate	University of British Columbia
2002-2003	Graduate Student	Chalmers University of Technology (Sweden)
2001-2002	Project Manager	Hirbodan EPC Company (Iran)
1993-2001	Co-Founder and Director of Engineering and Research Department	Ofogh-e-Talae Company (Iran)
1992-1993	Senior Process Engineer	OIEC Group (Iran)
1986-1989	Process Researcher and Engineer	Khak-e Rangbar (Iran)

4. HONOURS AND AWARDS:

Year	Award
2016	Contribution to Teaching Award, Lakehead University
2014	Nominated as Distinguished Professor, Lakehead University
2008	Graduate TA Teaching Award, University of British Columbia
2006	GLS-6 Seminar Series Award, University of British Columbia
2004-2005	Izzak Walton Killam Memorial Pre-Doctoral Fellowship, University of British Columbia
2004	Kashmir Sing Manhas Scholarship in Applied Science, University of British Columbia

5. PUBLICATIONS:

a) Life-time summary:

Papers in Refereed Journals	15
Book Chapters	1
Reports	37
Non-refereed Publications.....	5
Papers in Refereed Conference Proceedings.	5
Abstracts in Refereed Conference Proceedings.....	
Papers/Abstracts in Non-refereed Conference Proceedings.....	3

b) Details for past seven (7) years: (include 2010/11 and on)

Papers in Refereed Journals:

Author, X., use this template as it is set up with a hanging indent so formatting is easy for papers submissions.

- M. Moghadaripouri, A. H. Azimi, **S. Elyasi** (2017). Experimental study of oblique particle clouds in water. *International Journal of Multiphase Flow*, 91, 101-119
- C. Zerpa, S. Carlson, **S. Elyasi**, E. Przystucha (2016). Energy Dissipation Measures on a Hockey Helmet Across Impact. *Journal of Safety Engineering*, 5(2), p27-35
- S, Khedri, **S. Elyasi** (2016). Kinetic analysis for thermal cracking of HDPE: A new isoconversional approach. *Polymer Degradation and Stability Journal*. Vol 129, 306-318
- N. Mohammadidinani, A. H. Azimi, **S. Elyasi** (2016). Experimental Investigation of Sand Jets Passing Through Immiscible Fluids. *Journal of Fluids Engineering*, 139 (5), 051303-1- 051303-1-13
- M. Moghadaripouri, A. H. Azimi, **S. Elyasi** (2016). Experimental Study of Particle Clouds in Stagnant Water, *Journal of Engineering Mechanics*
- G. Asadollahfardi, M. Asadi, M. Youssefi, **S. Elyasi**, M. Mirmohammadi (2014). Experimental and mathematical study on ammonia emission from Kahrizak landfill and composting plants. *Journal of Material Cycles and Waste Management*, 16 (40), p. 1999-2014
- **S. Elyasi**, F. Taghipour (2011) Performance Evaluation of UV Reactor Using Optical Diagnostic Techniques. *AIChE Journal*. Vol 57, 1, 208-217
- **S. Elyasi**, F. Taghipour (2010) General Method of Simulating Radiation Fields Using Measured Boundary Values. *Chemical Engineering Science*. Vol 65, 20, 5573-5581

- **S. Elyasi**, F. Taghipour (2010) Simulation of UV Photoreactor for Degradation of Chemical Contaminants: Model Development and Evaluation. *Environmental Science & Technology*. Vol 44, 6, 2056–2063
- M.S. Masnadi, **S. Elyasi**, J.R. Grace, X. Bi (2010) Gas-Solid Flow Distribution through Identical Vertical Passages: Modeling and Stability Analysis. *AIChE Journal*. Vol 56, 8, 2039-2051
- M.S. Masnadi-Shirazi, J.R. Grace, **S. Elyasi**, X. Bi (2010) Distribution of multi-phase gas-solid flow across identical parallel cyclones. *Separation and Purification technology*. Vol 72, 1, 48-55

Book Chapters:

Author, X., use this template as it is set up with a hanging indent so formatting is easy for papers submissions.

Reports:

Author, X., use this template as it is set up with a hanging indent so formatting is easy for papers submissions.

- **S. Elyasi**, B. Tyldesley (2015). Bombardier Project: UVGI Air Purification System. Technical report submitted to Bombardier (Engage Project).
- **Elyasi, S.**, S. Shifa, M. Kupa, J. Grace, J. Lim (2011) Regeneration of Carbonate(s). University of British Columbia, Chemical Engineering Department. Sponsored by Carbon Engineering and Carbon Management Canada
- **Elyasi, S.**, J. Grace, J. Lim (2011) Development of Direct Air-Capture Technology Project, University of British Columbia, Chemical Engineering Department. Sponsored by Carbon Engineering and Carbon Management Canada
- **Elyasi, S.**, M. Kupa, J. Grace, J. Lim (2011) Lithium/Sodium Ferrite Reaction Study. University of British Columbia, Chemical Engineering Department. Sponsored by Carbon Engineering and Carbon Management Canada
- **Elyasi, S.**, Boyd, T. (2010) New Low Temperature Hydrogen Production Plant using Steam Methane Reformer and Commercial Sorbent. Membrane Reactor Technology Ltd.

Non-refereed Publications:

Author, X., use this template as it is set up with a hanging indent so formatting is easy for papers submissions.

Papers submitted to Refereed Journals:

Author, X., use this template as it is set up with a hanging indent so formatting is easy for papers submissions.

- S, Khedri, **S. Elyasi** (2017). Determination of the Heat of Pyrolysis of HDPE via Isothermal Differential Scanning Calorimetry. *Thermochimica Acta*

6. CONFERENCE PAPERS:

Papers in Refereed Conference Proceedings:

Author, X., use this template as it is set up with a hanging indent so formatting is easy for papers submissions.

- J. Q. Galvao Neto, F. B. Rossato, T. T. Vinhal, **S. Elyasi** (2016). New Method of Purification of Glycerin From Biodiesel Using Silica Gel as Adsorbent. XXI Congresso Brasileiro de Engenharia Quimica, September (25 to 29) 2016
- S. Carlson, C. Zerpa, T. Hoshizaki, **S. Elyasi**, G. Paterson, E. Przysucha, and P. Sanzo (2016). Evidence of Reliability and Validity for the use of a Health Impact Drop System. ISBS2016 Conference held from July 18 to 22, 2016 in University of Tsukuba, Japan (Poster, P0810303)
- S. Carlson, C. Zerpa, T. Hoshizaki, **S. Elyasi**, G. Paterson, E. Przysucha, and P. Sanzo (2016). Evidence of Reliability and Validity for the use of a Health Impact Drop System. ISBS2016 Conference held from July 18 to 22, 2016 in University of Tsukuba, Japan (Oral Presentation)
- G.A. Gois, **S. Elyasi**, I.R. Ilfdio (2015). Crushing and Grinding: How to Turn The Ore Iron Processing More Economic and Efficient. The Iron and Steel Technology Conference and Exposition. May 2015, Cleveland, Ohio
- Campbell, J., Grace, J.R., Lim, C.J., and **Elyasi, S.** (2012) Direct capture of CO₂ from ambient air: Regenerating NaOH at low temperature. CMC conference (Poster Presentation)
- **S. Elyasi**, J. Hoi, J. R. Grace, J. Lim, and A. Li. (2012). Regeneration of Sodium Hydroxides During CO₂ Capture. Carbon Management Canada 2nd Annual Conference, May 2012 (Poster Presentation)
- **S. Elyasi**, S. Vashisth, J. Hoi, J. Grace, J. Lim, A. Knight, A. Li (2012). CO₂ Capture from Ambient Air. Carbon Management Canada 2nd Annual Conference, May 2012 (Read Presentation)

Abstracts in Refereed Conference Proceedings:

Author, X., use this template as it is set up with a hanging indent so formatting is easy for papers submissions.

Papers/Abstracts in Non-refereed Conference Proceedings:

Author, X., use this template as it is set up with a hanging indent so formatting is easy for papers submissions.

- **S. Elyasi** (2016). Turning an Environmental Problem into an Opportunity. Lakehead Chapter of the Professional Engineers Ontario Technology Conference (November 4), Thunder Bay (accepted)
- **S. Elyasi**, C. Gravelle (2015) CFD modeling of UV photocatalytic reactor for chemical removal from contaminated air, Canadian Chemical Engineering Conference, Calgary
- **S. Elyasi**, T. T. Vinhal, F. B. Rossato, J. D. Queiroz (2015), A new method of adsorptive purification of crude glycerol from biodiesel, Canadian Chemical Engineering Conference, Calgary
- S. Khedri, **S. Elyasi** (2015), Evaluation the reactiopn rate of waste plastic thermal cracking using isothermal thermogravimetry analysis: a new approach. Canadian Chemical Engineering Conference, Calgary

7. RESEARCH GRANTS RECEIVED:

EXTERNAL GRANTS				
Year	Grantee (PI)	Agency	Title	Amount
2019	Dr. Siamak Elyasi	NSERC	Engage for AOP Modeling, BioLargo Inc.	\$ 25,000
2017	Dr. Siamak Elyasi	NSERC Dis	Discovery Grant, for Extension of Previous Grant	\$ 24,000
2012-2016	Dr. Siamak Elyasi	NSERC	Discovery Grant for UV Reactor Modeling and 2D Visualization of Operating Parameters	\$ 120,000
2014	Dr. Siamak Elyasi	NSERC	Engage Grant for Air Disinfection for Bombardier Rail Car Passengers	\$ 25,000

INTERNAL GRANTS				
Year	Grantee (PI)	Agency	Title	Amount
2016	Dr. Siamak Elyasi	SWB	Student Without Boarder, Summer Students	\$ 15,000
2015	Dr. Siamak Elyasi	SWB	Student Without Boarder, Summer Students	\$ 27,000
2014	Dr. Siamak Elyasi	SWB	Student Without Boarder, Summer Students	\$ 60,000
2013	Dr. Siamak Elyasi	SWB	Student Without Boarder, Summer Students	\$ 9,000
2012	Dr. Siamak Elyasi	NSERC RCD	start-up	\$ 5,000

8. PROFESSIONAL ASSOCIATIONS:

Year	Association
2015-present	Member of American Society for Engineering Education
2016-present	Professional Engineers of Ontario

9. PROFESSIONAL COMMITTEES/SERVICE TO THE PROFESSION:

Year	Association

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10. UNIVERSITY SERVICE / ADMINISTRATIVE RESPONSIBILITIES:

Year	Association
2016-2019	Co-ordinator of Environmental Engineering Graduate Program
2016	Acting Co-ordinator of Environmental Engineering Graduate Program
2015-2019	Chair of Computer Resource Committee
2015-2019	Member of Curriculum and Assessment Committee
2016-2019	Member of Research and Graduate Studies Committee
2015-2019	Member of Senate Academic Information Technologies Committee
2013-2014-2015	Member of search committee for hiring a new faculty member (chemical Engineering)
2017	Member of search committee for hiring a new faculty member (Mechanical Engineering)
216-present	Faculty liaison with ESS and EEEF on the Makerspace

11. COURSES TAUGHT DURING LAST SEVEN YEARS (Starting 2010/11) AND PARTICIPATION IN CURRICULUM DEVELOPMENT:

a. UNDERGRADUATE COURSES:

Year	Number	Course Name	Number of Students
2012	0335	Air Pollution Control and Analysis Methods	22
2018	0338	Air Pollution Control and Analysis Methods	19
2012	2450	Organic Industrial Processes	8
2013	2450	Organic Industrial Processes	24
2014	2450	Organic Industrial Processes	21
2015	2450	Organic Industrial Processes	38
2016	2455	Hydrocarbon Processes	20
2017	2455	Hydrocarbon Processes	31
2018	2455	Hydrocarbon Processes	26
2019	2455	Hydrocarbon Processes	14
2020		On Sabbatical leave	
2021		Hydrocarbon Processes	24
2022	2455	Hydrocarbon Processes	11
2012	3338	Mass Transfer Separation	18
2013	3338	Mass Transfer Separation	25
2014	3338	Mass Transfer Separation	29
2015	3338	Mass Transfer Separation	29
2016	3338	Mass Transfer Separation	38
2017	3338	Mass Transfer Separation	50
2018	3338	Mass Transfer Separation	32
2019		On Sabbatical leave	
2020	3338	Mass Transfer Separation	27
2021	3338	Mass Transfer Separation	29

2022	3338	Mass Transfer Separation (Summer Term)	10
2020	0335	Air Pollution Control	34
2021	1150	Introduction to Industrial Chemical Processes	9
2022	1150	Introduction to Industrial Chemical Processes	6
2012	3338L	Mass Transfer Separation, Laboratory	18
2013	3338L	Mass Transfer Separation, Laboratory	25
2012	4150	Chemical reactor Design	19
2013	4150	Chemical reactor Design	14
2014	4150	Chemical reactor Design	23
2015	4150	Chemical reactor Design	24
2016	4150	Chemical reactor Design	20
2017	4150	Chemical reactor Design	32
2018	4150	Chemical Reactor Design	44
2019	4150	Chemical Reactor Design	32
2020		On Sabbatical leave	
2021	4150	Chemical Reactor Design	26
2022	4150	Chemical Reactor Design	21
2012	4150L	Chemical reactor Design, Laboratory	19
2013	4150L	Chemical reactor Design, Laboratory	14
2014	4150L	Chemical reactor Design, Laboratory	23
2015	4150L	Chemical reactor Design, Laboratory	24
2016	4150L	Chemical reactor Design, Laboratory	20
2017	4150L	Chemical reactor Design, Laboratory	32
2013	4132	Plant Design Economy and Management	25
2014	4132	Plant Design Economy and Management	22
2015	4132	Plant Design Economy and Management	18
2016	4132	Plant Design Economy and Management	21
2017	4132	Plant Design Economy and Management	20
2021	4969	Degree Project	28

b. GRADUATE COURSES:

Year	Number	Course Name	Number of Students
2020	5152	Air Pollution Control	2

12. SUPERVISION. (PAST NINE YEARS):

LIFETIME SUMMARY		
Number of Students	Degree Type	Supervision Type
2	PhD	Supervisor
11	MSc	Supervisor
5	MSc	Co-supervisor

73	BSc	Supervisor
9	BSc	Co-Supervisor

13.

a. CONTRIBUTIONS TO TRAINING OF HIGHLY QUALIFIED PERSONNEL/
SUPERVISION GRADUATE BSTUDENTS. (PAST SEVEN YEARS – 2010/11
and onward):

Student Name	Title of Thesis or Project	Graduate	Undergraduate	Full-Time	Part-Time
Sahar Khedri (PhD Candidate)	Converting Waste Plastic to Hydrocarbons	✓		✓	
Azadeh Bahramian (PhD Candidate)	Fluid Bed Catalytic Cracking for Waste Plastics	✓		✓	
Benjamin Tyldesley (Master Student)	UV radiation, Developing a new Modeling Procedure	✓		✓	
Jeffery Hoi (Master Student)	CFD Modeling of UV Radiation (Surface Method)	✓		✓	
Clarissa Gravelle (Master Student)	CFD Modeling of UV Reactor for Chemical Removal From Air.	✓		✓	
Micheal Kupa (Master Student)	Study of Ferrite Cycle in order to Recover NaOH	✓		✓	
Sayeeda Sharmin Shifa (Master Student)	Carbonation of MgO and Mg(OH) ₂ in a Gas-Solid and Gas-Solid-Liquid System.	✓		✓	
Avinash Narayan Mhetre (Master Student)	Modeling of UV Radiation Pasteurization of Milk	✓		✓	
Mrunmayee Ravindra Nikam (Master Student)	Experimental Study of UV Radiation Pasteurization of Milk	✓		✓	
Ben Josephs (Master Student)	Adsorption Distillation of Crude Glycerin	✓		✓	
Tunc Kaptanoglu (Master Student)	Recovery of Plastic from Wastes Household	✓		✓	
Viswateja Nishanth Marimganti (Master Student)	Overview of Engineered Barrier Material in the Waste Disposition of Nuclear Power Plants	✓		✓	
Urvashi Khandelwal (Master Student)	Increasing Setting Time for Magnesium Cement	✓		✓	

14.

- b. **CONTRIBUTIONS TO TRAINING OF HIGHLY QUALIFIED PERSONNEL/
SUPERVISION UNDERGRADUATE BSTUDENTS. (PAST SEVEN YEARS –
2010/11 and onward):**

Student Name	Title of Thesis or Project	Graduate	Undergraduate	Full-Time	Part-Time
Aguinaldo V. Ariben	Acrylic Acid Production from Waste Glycerol		✓	✓	
Michael J. Sarra	Acrylic Acid Production from Waste Glycerol		✓	✓	
Mohammed R. Shaikh	Acrylic Acid Production from Waste Glycerol		✓	✓	
Koji Yoshikawa	Acrylic Acid Production from Waste Glycerol		✓	✓	
James D. Vittie	Natural Gas Plant		✓	✓	
Jesse W. Stanek	Natural Gas Plant		✓	✓	
Yiran Song	Natural Gas Plant		✓	✓	
Ray Yang	Natural Gas Plant		✓	✓	
Christopher Delawski	Production of Methanol by Catalytic Hydrogenation of CO ₂		✓	✓	
Paramjot Nagra	Production of Methanol by Catalytic Hydrogenation of CO ₂		✓	✓	
Harman Randhawa	Production of Methanol by Catalytic Hydrogenation of CO ₂		✓	✓	
Arvinder Sangha	Production of Methanol by Catalytic Hydrogenation of CO ₂		✓	✓	
Duran Drego	Production of Methanol from Carbon Dioxide and Hydrogen		✓	✓	
Quinten Ilkka	Production of Methanol from Carbon Dioxide and Hydrogen		✓	✓	
Daman Bachara	Production of Methanol from Carbon Dioxide and Hydrogen		✓	✓	
Samuel Frisby	Production of Methanol from Carbon Dioxide and Hydrogen		✓	✓	
Diego Caicedo	Production of Methanol through Direct Synthesis Catalytic Hydrogenation of CO ₂		✓	✓	
Kareem Mohamed	Production of Methanol through Direct Synthesis Catalytic Hydrogenation of CO ₂		✓	✓	
Elsa Beleke	Production of Methanol through Direct Synthesis Catalytic Hydrogenation of CO ₂		✓	✓	
Simon Barnett	Methanol Production by Catalytic Hydrogenation of Carbon Dioxide		✓	✓	
Ronald Copeland	Methanol Production by Catalytic Hydrogenation of Carbon Dioxide		✓	✓	
Peter Ogotu	Methanol Production by Catalytic Hydrogenation of Carbon Dioxide		✓	✓	
Kiazitako Muanza	Methanol Production by Catalytic Hydrogenation of Carbon Dioxide		✓	✓	

Patrick Serafin	Methanol Production by Catalytic Hydrogenation of Carbon Dioxide		✓	✓	
Samantha D. Belluz	Renewable Production of Methanol from Carbon Dioxide and Hydrogen Gas		✓	✓	
Josephine D. Robertson	Renewable Production of Methanol from Carbon Dioxide and Hydrogen Gas		✓	✓	
Shamal Shahid	Renewable Production of Methanol from Carbon Dioxide and Hydrogen Gas		✓	✓	
Taylor R. Tough	Renewable Production of Methanol from Carbon Dioxide and Hydrogen Gas		✓	✓	
Kyle E. Watkins	Renewable Production of Methanol from Carbon Dioxide and Hydrogen Gas		✓	✓	
Sami Hachem	Purification of Glycerine from Biodiesel Plant		✓	✓	
Dustin Robinson-Priestley	Purification of Glycerine from Biodiesel Plant		✓	✓	
Janet Martin	Purification of Glycerine from Biodiesel Plant		✓	✓	
Dakota Stratford	Purification of Glycerine from Biodiesel Plant		✓	✓	
Brett Nagy	Purification of Glycerine from Biodiesel Plant		✓	✓	
Fernando Burle Bezerra	Developed Falling Film Method for Pasteurizing milk Using UV Radiation		✓	✓	
Leticia Giese de Andrade Cruz	Producing of Building Material using 3D printer		✓	✓	
Thiago Fernandes Rey	Converting Router to CNC Milling Machine		✓	✓	
Eduardo Chaves dos Santos Filho	Producing of Building Material using 3D printer		✓	✓	
Aline De Mello Joia	3D scanning of Objects a New approach		✓	✓	
Sarah Clarke	Optimization of Resolute Forest Products' evaporation process of black liquor		✓	✓	
Griselda Gasca Paredes	Optimization of Resolute Forest Products' evaporation process of black liquor		✓	✓	
Jarred Kapush	Optimization of Resolute Forest Products' evaporation process of black liquor		✓	✓	
David McKenna	Optimization of Resolute Forest Products' evaporation process of black liquor		✓	✓	
Mitchell McNall	Optimization of Resolute Forest Products' evaporation process of black liquor		✓	✓	
Eduardo Aramizu	Developing low cost low profile linear CCD using arduino		✓	✓	
Fernanda Rossato	New method for concentrating crude glycerin from biodiesel		✓	✓	
Gracieth Cavalcanti Batista	Developing low cost low profile digital amplifier for photodiodes		✓	✓	
Iago Lucas Batista Galvao	Developing low cost low profile digital amplifier for photodiodes		✓	✓	

Otavio Rodrigues de Oliveira	Developing wearable motion tracking sensors		✓	✓	
Patrick Goia	Developing wearable motion tracking sensors		✓	✓	
Rafael Maritan	Developing wearable motion tracking sensors		✓	✓	
Vitor Vieira	Developing low cost low profile linear CCD using Arduino		✓	✓	
Wagner Artifon	Water treatment using photocatalytic reactor		✓	✓	
Natasha Bieniek	Converting Plastics Wastes to Straight Run Petroleum Products		✓	✓	
Ryan Gerlach	Converting Plastics Wastes to Straight Run Petroleum Products		✓	✓	
Terry Milton	Converting Plastics Wastes to Straight Run Petroleum Products		✓	✓	
Christopher Lock	Converting Plastics Wastes to Straight Run Petroleum Products		✓	✓	
Kayte Sutherland	Converting Plastics Wastes to Straight Run Petroleum Products		✓	✓	
Daphne Fernanda F.B. Carvalho	Developing Low Cost 3D Scanner		✓	✓	
Diego Barbosa Carvalho	Developing a Novel Optical Method for 2D Measuring of Irradiance Rate		✓	✓	
Gabriela Araujo Gois	Developing a Low Cost Digital Readout		✓	✓	
Janderson Vieira Guimaraes	Developing a Low Profile, Low Cost 3D CNC milling Machine		✓	✓	
Joao de Queiroz	Developing a Novel Method For Purification of Glycerin By-Product from Biodiesel Plant		✓	✓	
João Vítor Quintiliano S Borges	Developing a Low Profile, Low Cost 3D CNC milling Machine		✓	✓	
Jose Gerardo Fonteles Lopes	Developing Low Cost 3D Scanner		✓	✓	
Julianal Zimmermann	Developing a New Low Cost High Speed 24bit Linear Camera		✓	✓	
Larissa Rodrigues Custodio	Developing a Novel Optical Method for 2D Measuring of Irradiance Rate		✓	✓	
Murilo Doro Rossi	CFD Modeling a New High Performance UV-Reactor for Water Treatment		✓	✓	
Pamela Sfalcin	Studying Reaction Rate of Thermo- Catalytic of Waste Plastics		✓	✓	
Pedro Sérgio	Developing a Novel Optical Method for 2D Measuring of Irradiance Rate		✓	✓	
Samuel Cezar Barros Moraes	Developing Low Cost 3D Scanner		✓	✓	
Siane Luzzi	Studying Coating of Catalyst on The surface of Glass as Substrate		✓	✓	
Thiago DeMartin Goncalves	Developing a Novel Optical Method for 2D Measuring of Irradiance Rate		✓	✓	
Thiago Teixeira Vinhal	Developing a Novel Method For Purification of Glycerin By-Product from Biodiesel Plant		✓	✓	
Vinicius Alvesde Oliveira	Developing a New Low Cost High Speed 24bit Linear Camera		✓	✓	
Juliana Moitinho Meira	Studying Reaction Rate of Thermo- Catalytic of Waste Plastics		✓	✓	

Bianca deVicente Felisbino	Studying Reaction Rate of Thermo- Catalytic of Waste Plastics		✓	✓	
Angelo FavaroNeto	Studying Reaction Rate of Thermo- Catalytic of Waste Plastics		✓	✓	
Fernando Fonseca	Motion Control Using Arduino		✓	✓	
Fabio Machado Cavalcanti	Developing Image Acquisition Software Using Scientific Camera		✓	✓	
Arthur Carvalho	Computerizing Instrument in The Research Laboratory		✓	✓	

Student Name	Title of Thesis or Project	Graduate	Undergraduate	Full-Time	Part-Time
Mufan Yang (Master Student)	Anaerobic membrane bioreactor for pulp and paper sludge treatment for bioenergy recovery	✓		✓	
Niyousha Mohammadinani (Master Student)	Experimental investigations of sand jets in stagnant water	✓		✓	
Mohammad Baradaran Ghavami (Master Student)	Investigation and Modeling of Volatile Organic Compounds (VOC) Migration Though Soil.	✓		✓	
Maryam Useafi (Master Student)	Mathematical Modeling of Odor Propagation from Solid Waste Household Composting Plant	✓		✓	

Graduate Students whom I was the co-supervisor

Undergraduate Students whom I was the co-supervisor

Student Name	Title of Thesis or Project	Graduate	Undergraduate	Full-Time	Part-Time
Nathan Blundon	Hydrogen Production by Sorption-Enhanced Steam-Methane Reforming		✓	✓	
Eric Czaczkowski	Hydrogen Production by Sorption-Enhanced Steam-Methane Reforming		✓	✓	
Travis Roske	Hydrogen Production by Sorption-Enhanced Steam-Methane Reforming		✓	✓	
Matthew Smith	Hydrogen Production by Sorption-Enhanced Steam-Methane Reforming		✓	✓	
Charlene Carson	Methanol to Olefin Design Project		✓	✓	
Chong Lam	Methanol to Olefin Design Project		✓	✓	
Ewan MacDonald	Methanol to Olefin Design Project		✓	✓	
Kevin Mcleish	Methanol to Olefin Design Project		✓	✓	
Michael Glackin	Methanol to Olefin Design Project		✓	✓	
Alan Goodison	Biogas Purification Project.		✓	✓	
Daniel Esau	Pre-Treatment of Sweage Sludge.		✓	✓	
Dora Ip	Investigation the Feasibility of a Community-Based Biogas		✓	✓	
Michael Kitching	Methane Production from Wastewater io-Solids		✓	✓	