

# Jacqueline El-Sayed, Ph.D.

Vice President for Academic Affairs and Professor - Marygrove College - (248) 425-8425 - jelsayed@marygrove.edu

## Core Accomplishments

- Completed rigorous programs at Harvard University as Women in Education Leadership Institute Class '16 and as American Council on Education Fellow Class of '08 - '09 at Harvey Mudd College
- Fostered support for and managed multi-million dollars in grants from public and private sources
- Analyzed functionality of Marygrove operations; executed alignment & reorganization; Analyzed functionality of Kettering Academic Affairs; executed alignment & reorganization
- Developed HLC review and assessment team leadership at two institutions; both regional and programmatic accreditation oversight experience
- Chaired the inclusive, campus-wide strategic vision and mission process for Kettering University
- Recommendations implemented at Chrysler with an estimated ROI of \$10 million over five years
- Led the Michigan Truck Safety Commission for national recognition, while streamlining processes
- Led Michigan Department of State Driver's Traffic Safety Committees resulting in new legislation

## Professional Preparation

University of Missouri	Mechanical and Aerospace Engineering	PhD
University of Missouri	Mechanical and Aerospace Engineering	MSE
Kettering University	Mechanical Engineering	BSE

## Professional Experience

<b>Vice President for Academic Affairs and Professor of Mechanical Engineering</b> Marygrove College, Detroit, Michigan	<b>2013-present</b>
<b>Kettering University, Multiple positions with increasing responsibility</b> <b>Associate Provost and Associate Vice President for Academic Affairs and Professor of Mechanical Engineering</b> Kettering University, Flint, Michigan	<b>1996-2014</b> 2012- 2014
<b>Associate Vice President for Academic Affairs and Professor of Mechanical Engineering</b> Kettering University, Flint, Michigan	2011- 2012
<b>Strategic Planning and Analysis, Office of the Provost and Professor of Mechanical Engineering</b> Kettering University, Flint, Michigan	2010- 2011
<b>American Council on Education Fellow</b> Harvey Mudd College, Claremont, California	2008-2009
<b>Director, Center for Excellence in Teaching and Learning and Professor of Mechanical Engineering</b> Kettering University, Flint, Michigan	2006- 2010
<b>Professor, Mechanical Engineering</b> Kettering University Mechanical Engineering Department, <a href="#"><u>Nationally recognized</u></a>	2007- 2014
<b>Associate Professor with Tenure, Mechanical Engineering</b>	2002- 2007
<b>Assistant Professor, Mechanical Engineering</b>	1998- 2002
<b>Adjunct Professor, Mechanical Engineering</b>	1996- 1998
<b>Adjunct Professor, Industrial Engineering</b> Florida International University, Miami, FL	<b>1991- 1995</b>

<b>Teaching Assistant, Mechanical and Aerospace Engineering</b> University of Missouri, Columbia, MO	<b>1987- 1991</b>
<b>Engineering Co-op / Manufacturing Engineer</b> General Motors Truck and Bus Group Headquarters, Pontiac, MI	<b>1981- 1987</b>
<b>Public Service</b>	
<b>Commissioner, Michigan Truck Safety Commission</b> State of Michigan, Lansing, MI	<b>2004- 2011</b>
<b>Chair, Michigan Department of State Traffic Safety Committees</b> State of Michigan, Lansing, MI	<b>2005- 2007</b>
<b>Trustee, Bloomfield Hills Board of Education</b> Bloomfield Hills, Michigan, <u>Nationally recognized</u>	<b>2011-present</b>
<b>Syrian American Rescue Network</b> Troy, Michigan	<b>2015-present</b>

## National Organizations and Positions

<b>American Society of Engineering Education</b> Undergraduate Experience Committee, Co-Chair Co-Chair-Elect Engineering Deans Council, Marygrove College Representative Member, Diversity Committee Member, Data Collection Committee	<b>2009-present</b> 2015-present 2013-2015 2014-present
Engineering Deans Council, Kettering University Representative Member, Data Collection Committee Member, Public Policy Committee Member, Global Engineering Dean's Council	2011- 2014
Women in Engineering Division treasurer	2009- 2011
<b>American Council on Education, Washington D.C.</b> Member, Council of Fellows Executive Committee Co-Chair Council of Fellows Professional Development Committee Co-Chair Council of Fellows Weekend 2013 American Council on Education Fellow	<b>2008-present</b> 2013-2015 2013-2015 2012-2013 2008-2009
<b>Society of College and University Planners</b> Member, Advancement Committee SCUP Planning Institute Faculty SCUP Planning Institute Graduate	<b>2008-present</b> 2015-present 2012-present 2008- 2011

## National Recognitions

<b>Women in Education Leadership Institute</b> Harvard University, Boston, Massachusetts	<b>2016</b>
<b>International Executive Leadership Fellow</b> Global Professional Skills Assessment, Baltimore, Maryland	<b>2015-2016</b>
<b>American Council on Education Fellow</b> Placement at Harvey Mudd College, Claremont, California	<b>2008-2009</b>

## Selected Regional/Institutional Recognitions

<b>Federal Bureau of Investigation</b> FBI Citizen's Academy, Detroit, MI	<b>2016</b>
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<b>Diversity Champion Honoree</b> Race Relations & Diversity Task Force, Oakland County, Michigan	<b>2013</b>
<b>The Richard L. Terrell Professor of Excellence in Teaching</b> Kettering University, Flint, Michigan	<b>2006-2014</b>
<b>Kettering Alumni Association Board, Elected-member</b> Kettering University, Flint, Michigan	<b>2006-2011</b>
<b>Alumni Class &amp; Fundraising Chair</b> Kettering University, Flint, Michigan	<b>2011</b>
<b>Advisor of the Year, twice selected</b> Kettering University, Flint, Michigan	<b>2005, 2010</b>
<b>Educational Scholar Award with <a href="#">Kettering Industrial Ecology Team</a></b> Kettering University, Flint, Michigan	<b>2007</b>
<b>Rho Lambda Honor Society, Honorary member</b> Kettering University, Flint, Michigan	<b>2007</b>
<b>Order of the Omega, Honorary member</b> Kettering University, Flint, Michigan	<b>2007</b>
<b>Rodes Professorship with Dr. Lucy King</b> Kettering University, Flint, Michigan	<b>2005-2006</b>
<b>Management Honor Society</b> General Motors Truck Group, Pontiac, Michigan	<b>1986</b>

## **Additional Professional Development**

<b>Certificate in Professional Fundraising</b> Boston University, Boston, Massachusetts	<b>2015</b>
<b>Certificate in Strategic Planning</b> Society of College and University Planning Institute Graduate	<b>2008-2011</b>
<b>Program Accreditation Certificate: ABET</b> Selected IDEAL Scholar and trained by Dr. Gloria Rogers, ABET	<b>2011</b>
<b>Regional Accreditation: HLC</b> Completed Self Study Workshops & Accreditation Liaison Training	<b>2011-2014</b>
<b>Pacific Crest Teaching &amp; Learning Institute Certificates</b> Curriculum Design, Assessment, Online Learning, Change Management, SOTL	<b>2006-2010</b>

## **5 Selected Grants and Proposals Awarded/Executed**

- “BOLD: Building Our Leaders in Detroit”, Kellogg Foundation, PI: Marygrove College, Successfully executed existing grant, Award Amount: \$1.6 million
- “ENGAGE” National Science Foundation, First cohort: D. Benson, Y. Dong, J. El-Sayed, M.Palmer, B. Homsher; Award Amount: \$12,000
- “Development of a Course in Environmentally Conscious Design and Manufacturing for Undergraduates,” National Science Foundation, PI: T. Lynch, Co PI: B. Redekop, Senior Investigators: A. Borchers, J. El-Sayed, C. Hoff, J. Auranadt, Award Amount: \$100,000
- “Horizontal and Vertical Integration of Manufacturing into Engineering Curricula”, National Science Foundation, PI: L. King, Co-PI: J. El-Sayed, and T. Lin, Award Amount: Amount: \$490,106
- “Metal Forming Analysis and Simulation,” General Motors Corporation Grant, PI: J. El-Sayed, Award Amount: \$50,000

## **5 Selected Significant Publications (40+ Refereed and Reviewed Publications)**

- J. El-Sayed, "Community Building Through Participatory Curricula Transformation," *International Journal of Process Education*, Vol. 8, Issue 2, Pacific Crest, Lilse, IL, September 2016
- J. El-Sayed, "Education for Future Engineers," *Technology Century*, Engineering Society of Detroit, Vol. 20 N. 1, p. 17-18, Spring, 2015
- M. El-Sayed, J. El-Sayed, "Achieving Life Long Learning Outcomes in Professional Degree Programs", *International Journal of Process Education*, Vol. 4, Issue 1, Pacific Crest, Lilse, IL, June 2014
- M. El-Sayed and J. El-Sayed, "Balancing Manufacturability and Performance Attributes in Lean Design," *SAE Int. J. Mater. Manf.* 5: doi:10.4271/2012-01-0512, 2013
- J. Aurandt, A. Borchers, T. Lynch, J. El-Sayed, C. Hoff, "Bringing Environmental Sustainability to Undergraduate Engineering Education: Experiences in an Inter-Disciplinary Course", *Journal of STEM Education: Innovations and Research*, Vol 13, Issue 2, April 2012

## **5 Selected External Workshops/Speaking Engagements/Presentations**

- "Reframing Leadership", Workshop, Process Education Conference, Grand Rapids, MI, July, 2016
- "The Next Generation of Students", Undergraduate Experience Committee presentation, American Society for Engineering Education Annual Conference & Expo, New Orleans, LA, June 2016
- "Daring to Dream: Refugees' Path Forward, Presentation, Michigan State University, East Lansing, MI, April, 2016
- "Women's History Month", Panel presentation, Federal Bureau of Investigation (FBI), Detroit, MI, March, 2016
- "Celebrating Women as Community Leaders", Panel presentation, Niagara Foundation, Troy, MI, March, 2016

**\*References available upon request.**