



**Intern Roster
1992 – 2017**

Year/Sponsor/Mentor:	2017	The Wege Foundation, Steelcase, Grand Rapid, MI	Lynn Zimmerman
Project:	Work on ISO 14,001 implementation, energy conservations initiatives, waste reduction and recycling research, product design for environment, development of metrics and data collection for Corporate Sustainability Report, and reducing their global footprint.		
Intern/Affiliation:	Ke Yang	M.S. Sustainable Systems / UM	
Faculty Mentor:	Dr. Gregory A. Keoleian		
Year/Sponsor/Mentor:	2017	U-M Center for Sustainable Systems	Helaine Hunscher
Project:	Update 28 Factsheets on the sustainability of various systems that meet human needs by conducting research to gather data on the current patterns of use, environmental impacts and sustainable alternatives.		
Intern/Affiliation:	Tara Mahone	M.S. Sustainable Sys. / UM	
Year/Sponsor/Mentor:	2016	The Wege Foundation, Steelcase, Grand Rapid, MI	Dave Rinard
Project:	Work on ISO 14,001 implementation, energy conservations initiatives, waste reduction and recycling research, product design for environment, development of metrics and data collection for Corporate Sustainability Report, and reducing their global footprint.		
Intern/Affiliation:	Jiarui Cai	M.S. Sustainable Systems & MSE / UM	
Faculty Mentor:	Dr. Gregory A. Keoleian		
Year/Sponsor/Mentor:	2016	U-M Center for Sustainable Systems	Helaine Hunscher
Project:	Update 27 Factsheets on the sustainability of various systems that meet human needs by conducting research to gather data on the current patterns of use, environmental impacts and sustainable alternatives.		
Intern/Affiliation:	Katelyn Dindia Johnson	M.S. Sustainable Sys. & Behav, Edu Comm/ UM	
Year/Sponsor/Mentor:	2015	The Wege Foundation, Steelcase, Grand Rapid, MI	Dave Rinard
Project:	Work on ISO 14,001 implementation, energy conservations initiatives, waste reduction and recycling research, product design for environment, development of metrics and data collection for Corporate Sustainability Report, and reducing their global footprint.		
Intern/Affiliation:	Ryan Leclerc	M.S. Sustainable Systems / UM	
Faculty Mentor:	Dr. Gregory A. Keoleian		
Year/Sponsor/Mentor:	2015	U-M Center for Sustainable Systems	Helaine Hunscher
Project:	Update 26 Factsheets on the sustainability of various systems that meet human needs by conducting research to gather data on the current patterns of use, environmental impacts and sustainable alternatives.		
Intern/Affiliation:	Brittany Szczepanik	M.S. Sustainable Sys. & MSE / UM	
Year/Sponsor/Mentor:	2014	The Wege Foundation, Steelcase, Grand Rapid, MI	Dave Rinard
Project:	Work on ISO 14,001 implementation, energy conservations initiatives, waste reduction and recycling research, product design for environment, development of metrics and data collection for Corporate Sustainability Report, and reducing their global footprint.		
Intern/Affiliation:	Daniel Mittler	M.S. Env. Policy & Planning / UM	
Faculty Mentor:	Dr. Gregory A. Keoleian		

Year/Sponsor/Mentor: **2014 U-M Center for Sustainable Systems** Helaine Hunscher
Project: Update 25 Factsheets on the sustainability of various systems that meet human needs by conducting research to gather data on the current patterns of use, environmental impacts and sustainable alternatives. Update the Sustainability: Live It – Learn It website.

Intern/Affiliation: **Brett Simon** M.S. Sustainable Sys. & Env. Policy / UM

Year/Sponsor/Mentor: **2013 The Wege Foundation, Steelcase, Grand Rapid, MI** Dave Rinard
Project: Work on ISO 14,001 implementation, energy conservations initiatives, waste reduction and recycling research, product design for environment, development of metrics and data collection for Corporate Sustainability Report, and reducing their global footprint.

Intern/Affiliation: **Braeden Gilchrist** M.S. Sustainable Sys. / UM
Faculty Mentor: Dr. Gregory A. Keoleian

Year/Sponsor/Mentor: **2013 U-M Center for Sustainable Systems** Helaine Hunscher
Project: Update 24 Factsheets on the sustainability of various systems that meet human needs by conducting research to gather data on the current patterns of use, environmental impacts and sustainable alternatives. Update the Sustainability: Live It – Learn It website.

Intern/Affiliation: **Stephanie Smith** M.S. Sustainable Sys. / UM

Year/Sponsor/Mentor: **2013 Michigan Energy Office, MI** Helaine Hunscher
Project: Implement a project that measurably reduces energy usage and costs at the business. Collect measurement data that demonstrates the effectiveness of the energy efficiency solution in a business setting. Submit monthly updates and final report.

Intern/Affiliation: **Abhishek Chitlangia** BSE Industrial Operations Eng./ UM

Year/Sponsor/Mentor: **2012 The Wege Foundation, Steelcase, Grand Rapid, MI** Dave Rinard
Project: Work on ISO 14,001 implementation, energy conservations initiatives, waste reduction and recycling research, product design for environment, development of metrics and data collection for Corporate Sustainability Report, and reducing their global footprint.

Intern/Affiliation: **Nagapooja Seeba** M.S. Sustainable Sys. / UM
Faculty Mentor: Dr. Gregory A. Keoleian

Year/Sponsor/Mentor: **2012 U-M Center for Sustainable Systems** Helaine Hunscher
Project: Update 24 Factsheets on the sustainability of various systems that meet human needs by conducting research to gather data on the current patterns of use, environmental impacts and sustainable alternatives. Update the Sustainability: Live It – Learn It website.

Intern/Affiliation: **Jordan Garfinkle** M.S. Sustainable Sys. / UM

Year/Sponsor/Mentor: **2012 U-M Center for Sustainable Systems** Helaine Hunscher
Project: Update 24 Factsheets on the sustainability of various systems that meet human needs by conducting research to gather data on the current patterns of use, environmental impacts and sustainable alternatives. Update the Sustainability: Live It – Learn It website.

Intern/Affiliation: **Janet Mosley** M.S. Sustainable Sys. / UM

Year/Sponsor/Mentor: **2011 The Wege Foundation, Steelcase, Grand Rapid, MI** Dave Rinard
Project: Work on ISO 14,001 implementation, energy conservations initiatives, waste reduction and recycling research, product design for environment, development of metrics and data collection for Corporate Sustainability Report, and reducing their global footprint.

Intern/Affiliation: **Nicole Labutong** M.S. Sustainable Sys. & Env. Informatics / UM
Faculty Mentor: Dr. Gregory A. Keoleian



Center for Sustainable Systems

Year/Sponsor/Mentor:	2011 U-M Center for Sustainable Systems	Helaine Hunscher
Project:	Update 23 Factsheets on the sustainability of various systems that meet human needs by conducting research to gather data on the current patterns of use, environmental impacts and sustainable alternatives. Update the Sustainability: Live It – Learn It website.	
Intern/Affiliation:	Alphonse Anderson	Mechanical Engineer / UM alum
Year/Sponsor/Mentor:	2011 DELEG / MDEQ - RheTech Inc., Whitmore Lake, MI	Dale Copedge
Project:	Implement the Economy, Energy, and Environment (E3) solutions identified in a recent energy audit conducted by a member of the E3 partnership, which may include an energy efficiency improvement, waste reduction or environmental footprint reduction, or sustainable manufacturing practice.	
Intern/Affiliation:	Adam Olshove	BSE Mechanical Engineering / UM
Faculty Mentor:	Dr. Jarod Kelly	
Year/Sponsor/Mentor:	2010 The Wege Foundation, Steelcase, Grand Rapid, MI	Dave Rinard
Project:	Work on ISO 14,001 implementation, energy conservations initiatives, waste reduction and recycling research, product design for environment, development of metrics and data collection for Corporate Sustainability Report, and reducing their global footprint.	
Intern/Affiliation:	Jenn Gough	M.S. Sustainable Systems / UM
Faculty Mentor:	Dr. Gregory A. Keoleian	
Year/Sponsor/Mentor:	2010 U-M Center for Sustainable Systems & Alcoa Foundation	Helaine Hunscher
Project:	Update 22 Factsheets on the sustainability of various systems that meet human needs by conducting research to gather data on the current patterns of use, environmental impacts and sustainable alternatives. Update the Sustainability: Live It – Learn It website.	
Intern/Affiliation:	Adam Bennett	M.S. Sustainable Systems / UM
Faculty Mentor:	Dr. Gregory A. Keoleian	
Year/Sponsor/Mentor:	2010 U-M Center for Sustainable Systems & Alcoa Foundation	Helaine Hunscher
Project:	Update 22 Factsheets on the sustainability of various systems that meet human needs by conducting research to gather data on the current patterns of use, environmental impacts and sustainable alternatives. Update the Sustainability: Live It – Learn It website.	
Intern/Affiliation:	Ryan Smith	M.S. Sustainable Sys, MSE MechEng / UM
Faculty Mentor:	Dr. Gregory A. Keoleian	
Year/Sponsor/Mentor:	2009 The Wege Foundation, Steelcase, Grand Rapid, MI	Dave Rinard
Project:	Work on ISO 14,001 implementation, energy conservations initiatives, waste reduction and recycling research, product design for environment initiatives, development of metrics and data collection for the first Corporate Sustainability Report, and implementation and reporting of Steelcase's commitment to reduce their global footprint.	
Intern/Affiliation:	Anne Winter	B.S. Chemical Engineering / UM
Faculty Mentor:	Dr. Gregory A. Keoleian	

Year/Sponsor/Mentor: **2009 U-M Center for Sustainable Systems & Alcoa Foundation** Helaine Hunscher

Project: Update 18 Factsheets on the sustainability of various systems that meet human needs by conducting research to gather data on the current patterns of use, environmental impacts and sustainable alternatives. Update the Sustainability: Live It – Learn It website.

Intern/Affiliation: **Matthew Durham** B.S.E. Chemical Engineering / UM

Faculty Mentor: Dr. Gregory A. Keoleian

Year/Sponsor/Mentor: **2009 U-M Center for Sustainable Systems & Alcoa Foundation** Helaine Hunscher

Project: Update 18 Factsheets on the sustainability of various systems that meet human needs by conducting research to gather data on the current patterns of use, environmental impacts and sustainable alternatives. Update the Sustainability: Live It – Learn It website.

Intern/Affiliation: **Elizabeth Durfee** M.S. Sustainable Systems / UM

Faculty Mentor: Dr. Gregory A. Keoleian

Year/Sponsor/Mentor: **2009 CMS Energy** Helaine Hunscher

Project: Calculate the energy and carbon footprint of CMS facilities in order to evaluate options for reducing costs associated with facility operations and prepare for a national carbon tax.

Intern/Affiliation: **Craig Cammarata** Dual M.P.P & M.S. Sustainable Systems / UM

Faculty Mentor: Dr. David Mengebier

Year/Sponsor/Mentor: **2009 MDEQ Water Bureau** Helaine Hunscher

Project: Benchmark wet weather discharges policies in the U.S. EPA and the individual states regulatory agencies. Use the internet to identify information that currently exists on-line. Develop questionnaires to seek desired information not available from online sources.

Intern/Affiliation: **Hilton Clark** Dual M.P.H. Env Health Science & M.S. Sustainable Systems / UM

Faculty Mentor: Dr. Jonathan W. Bulkley

Year/Sponsor/Mentor: **2009 MDEQ Water Bureau** Helaine Hunscher

Project: Benchmark wet weather discharges policies in the U.S. EPA and the individual states regulatory agencies. Use the internet to identify information that currently exists on-line. Develop questionnaires to seek desired information not available from online sources.

Intern/Affiliation: **Danielle LeFevre** M.S. Env Engineering / UM

Faculty Mentor: Dr. Jonathan W. Bulkley

Year/Sponsor/Mentor: **2009 MDEQ Water Bureau** Helaine Hunscher

Project: Benchmark wet weather discharges policies in the U.S. EPA and the individual states regulatory agencies. Use the internet to identify information that currently exists on-line. Develop questionnaires to seek desired information not available from online sources.

Intern/Affiliation: **Amy Samples** M.S. Environmental Policy / UM

Faculty Mentor: Dr. Jonathan W. Bulkley

Year/Sponsor/Mentor: **2008 The Wege Foundation, Steelcase, Grand Rapid, MI** Dave Rinard & Phil Hester

Project: Work on ISO 14,001 implementation, energy conservations initiatives, waste reduction and recycling research, product design for environment initiatives, development of metrics and data collection for the first Corporate Sustainability Report, and implementation and reporting of Steelcase’s commitment to reduce their global footprint.

Intern/Affiliation: **Ashley Murphree** B.S. Mech. & Civil and Env Engineering / UM

Faculty Mentor: Dr. Gregory A. Keoleian



Center for Sustainable Systems

Year/Sponsor/Mentor: Project:	2008 Steelcase, Grand Rapid, MI Support new and ongoing environmental initiatives including LCA data gathering, providing content for Marketing, Communications and Sales teams, assist with DFE training tool development, Material Assessment support, Cradle to Cradle certification support, and BIFMA Sustainable Assessment Standard evaluations.	Angela Nahikian
Intern/Affiliation: Faculty Mentor:	Elin Olson Dr. Gregory A. Keoleian	M.S. Sustainable Systems / UM
Year/Sponsor/Mentor: Project:	2008 MDEQ – Honeywell Burdick & Jackson, Muskegon, MI Investigate current solvent processing methods and technologies, develop a new approach and conduct lab-scale experiments to demonstrate effectiveness of new approach.	Dick Davis
Intern/Affiliation: Faculty Mentor:	Andrew Parth Dr. Gregory A. Keoleian	B.S. Chemical Engineering / UM
Year/Sponsor/Mentor: Project:	2008 U-M Center for Sustainable Systems Update 15 Factsheets by conducting research to gather data on the current patterns of use, environmental impacts and sustainable alternatives. Develop two new Factsheets.	Helaine Hunscher
Intern/Affiliation: Faculty Mentor:	Alphonse Anderson Dr. Gregory A. Keoleian	MSE Mechanical Engineering / UM
Year/Sponsor/Mentor: Project:	2008 U-M School Nat. Resources & Env. Code software to automate importation of existing .txt files; compare the overall efficiency of the PV system with one or more existing solar models for PV applications.	Duncan Callaway
Intern/Affiliation: Faculty Mentor:	Sina Sadeghi Bagsorkhi Dr. Gregory A. Keoleian	Sustainable Systems / UM
Year/Sponsor/Mentor: Project:	2008 IISI – Living Steel Conduct LCA of steel-structured 120 unit residential and retail building in Wuhan, China	Scott Chubbs
Intern/Affiliation: Faculty Mentor:	Julia Koslow Dr. Gregory A. Keoleian	Dual MS-MBA / UM
Year/Sponsor/Mentor: Project:	2008 IISI – Living Steel Conduct LCA of steel-structured 120 unit residential and retail building in Wuhan, China	Scott Chubbs
Intern/Affiliation: Faculty Mentor:	Alan Bush Dr. Gregory A. Keoleian	Sustainable Systems / UM
Year/Sponsor/Mentor: Project:	2007 Steelcase, Grand Rapid, MI Modify recycled content database methods to fit a newly-developed industry standard for systems furniture products; conducted feasibility study for a small, off-grid renewable energy installation for a Grand Rapids site.	Dave Rinard & Phil Hester
Intern/Affiliation: Faculty Mentor:	Therese Dorau Dr. Gregory A. Keoleian	Sustainable Systems / UM
Year/Sponsor/Mentor: Project:	2007 Steelcase, Grand Rapid, MI Support new and ongoing environmental initiatives including Lifecycle Assessment data gathering, providing content for Marketing, Communications and Sales teams, assist with DFE training tool development, Material Assessment support, Cradle to Cradle certification support, and BIFMA Sustainable Assessment Standard evaluations.	Denise VanValkenberg
Intern/Affiliation: Faculty Mentor:	Ben Massie Dr. Gregory A. Keoleian	Sustainable Systems / UM

Year/Sponsor/Mentor:	2007	MDEQ – Biolab in Adrian, MI	Greg Snyder
Project:	Pollution prevention in wastewater treatment and reducing noise pollution in the plant.		
Intern/Affiliation:	David Carpenter	Chemical Engineering / UM	
Faculty Mentor:	Dr. Gregory A. Keoleian		
Year/Sponsor/Mentor:	2007	MDEQ – Department of Transportation Lansing, MI	Molly Lamrouex & Bethany Mathousek
Project:	Gather & map the water quality information of bodies of water surrounding the highway project sites to assess impact of MDOT projects. Inventory aviation fuel to develop Spill Prevention Control & Containment plans.		
Intern/Affiliation:	Alex Lopez	Civil & Environmental Engineering / UM	
Faculty Mentor:	Dr. Gregory A. Keoleian		
Year/Sponsor/Mentor:	2006	University of Michigan - OSEH	Andy Berki
Project:	Technical Update on Environmental Reporting for U-M Ann Arbor Campus Develop 4 Factsheets on U-M Environmental Performance		
Intern/Affiliation:	Wai Chen (Arthur) Chan	Sustainable Systems / UM	
Faculty Mentor:	Dr. Gregory A. Keoleian		
Year/Sponsor/Mentor:	2006	Steelcase, Grand Rapid, MI	Dave Rinard
Project:	Product Recyclability Claims & Recycled Content Database & Materials Substantiation Product Environmental Performance		
Intern/Affiliation:	Peter Bailey	Sustainable Systems / UM	
Faculty Mentor:	Dr. Gregory A. Keoleian		
Year/Sponsor/Mentor:	2005	Steelcase, Grand Rapid, MI	Dave Rinard
Project:	Green Supply Chain Management (SCM) Standards and Metrics Product Recyclability Claims & Recycled Content Database GHG Inventory		
Intern/Affiliation:	Dimitri Shanin	Public Policy / UM	
Faculty Mentor:	Dr. Gregory A. Keoleian		
Year/Sponsor/Mentor:	2004	MDEQ – Department of Air Quality Lansing, MI	Dave Mason
Project:	Develop a Baseline GHG inventory for State of Michigan		
Intern/Affiliation:	Colin McMillan	Environmental Engineering / UM	
Faculty Mentor:	Dr. Gregory A. Keoleian		
Year/Sponsor/Mentor:	2004	MDEQ - Bronson Medical Hosp, Kalamazoo, MI	Daniel Kettenbeil
Project:	Solutions for reduction of redundant energy use		
Intern/Affiliation:	Kwok Cheong Leung	Natural Resources. & Environment / UM	
Faculty Mentor:	Dr. Gregory A. Keoleian		
Year/Sponsor/Mentor:	2004	Steelcase, Grand Rapid, MI	Dave Rinard
Project:	Continue Life Cycle Inventory of 3 products: work-surface, storage & panel		
Intern/Affiliation:	Bernhard Dietz	Natural Resources. & Environment / UM	
Faculty Mentor:	Dr. Gregory A. Keoleian		
Year/Sponsor/Mentor:	2004	Steelcase, Grand Rapid, MI	Phil Hester
Project:	Environmental profile of recycled content in product lines		
Intern/Affiliation:	Laura Flanigan	CEMP / UM	
Faculty Mentor:	Dr. Gregory A. Keoleian		



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Year/Sponsor/Mentor:	2003 MDEQ, SE Michigan	Marcel L. Halberstadt
Project:	2003 Hospital Waste Survey	
Intern/Affiliation:	Travis Dahl	Environmental Engineering/ UM
Faculty Mentor:	Dr. Gregory A. Keoleian	
Year/Sponsor/Mentor:	2003 Steelcase, Grand Rapid, MI	Phil Hester
Project:	Continue to develop a database for recycled content, Identify recyclability of current products, Identify waste elimination opportunities, Identify reuse options	
Intern/Affiliation:	Hillary Richmond	Natural Resources. & Environment / UM
Faculty Mentor:	Dr. Gregory A. Keoleian	
Year/Sponsor/Mentor:	2003 Steelcase, Grand Rapid, MI	Dave Rinard
Project:	Life Cycle Inventory of 3 products: work-surface, storage & panel	
Intern/Affiliation:	Bernhard Dietz	Natural Resources. & Environment / UM
Faculty Mentor:	Dr. Gregory A. Keoleian	
Year/Sponsor/Mentor:	2002 FRA, Washington, DC	Neil Moyer
Project:	Summer Intern for Specialized Environmental, Energy, Cost/Benefit, and Related Studies of Intercity rail Passenger Service	
Intern/Affiliation:	Tom Franzinger	Urban Planning/ UM
Faculty Mentor:	Dr. Gregory A. Keoleian, Research Scientist & Co-Director Center for Sustainable Systems	
Year/Sponsor/Mentor:	2002 MDEQ, SE Michigan	Randy Gibbs, Anderson Development Company
Project:	Conversion of Hexane Waste Stream	
Intern/Affiliation:	Monica Smylor	Chemical Engineering/ UM
Faculty Mentor:	Dr. Gregory A. Keoleian	
Year/Sponsor/Mentor:	2002 MDEQ, SE Michigan	Dave Mauro
Project:	Water Conservation, High-Bay Lighting, Alternative to Landfilling wood waste	
Intern/Affiliation:	Dan Carnes	Chemical Engineering/ UM
Faculty Mentor:	Dr. Gregory A. Keoleian	
Year/Sponsor/Mentor:	2002 Steelcase, Grand Rapid, MI	Philip D. Hester
Project:	Develop a database for recycled content, Identify recyclability of current products, Identify waste elimination opportunities, Identify reuse options	
Intern/Affiliation:	Staci Harger	Environmental Policy and Economics/ UM
Faculty Mentor:	Dr. Gregory A. Keoleian	
Year/Sponsor/Mentor:	2002 Ford, Dearborn, MI	John Sullivan
Project:	National LCI Database of Aluminum Casting Processes for Automobile Manufacturing	
Intern/Affiliation:	Rebecca Messing	B.S. Interdisciplinary Engineering / UM
Faculty Mentor:	Dr. Gregory A. Keoleian	
Year/Sponsor/Mentor:	2001 FRA, Washington, DC	Steve Ditmeyer
Project:	Summer Intern for Specialized Environmental, Energy, Cost/Benefit, and Related Studies of Intercity rail Passenger Service	
Intern/Affiliation:	Elyse Steiner	CEMP/ UM
Faculty Mentor:	Dr. Gregory A. Keoleian	
Year/Sponsor/Mentor:	2001 MDEQ, SE Michigan	Jenna Latt
Project:	Reducing Water Consumption by a Metal Finishing Company	
Intern/Affiliation:	Tamika Young	Chemical Engineering/ UM
Faculty Mentor:	Dr. Gregory A. Keoleian	

Year/Sponsor/Mentor:	2001 MDEQ, SW Michigan	Jenna Latt
Project:	Conductivity Control Systems in the Metal Finishing Industry	
Intern/Affiliation:	Hon-Sue Gu	Chemical Engineering/ UM
Faculty Mentor:	Dr. Gregory A. Keoleian	
Year/Sponsor/Mentor:	2001 MDEQ, GM Hamtramck	Steve Kulesia
Project:	Community Environmental Awareness	
Intern/Affiliation:	Kristi Stewart	Chemical Engineering/ UM
Faculty Mentor:	Dr. Gregory A. Keoleian	
Year/Sponsor/Mentor:	2001 NREL, Golden, CO	Maggie Mann/Lynn Billman
Project:	Sustainability Assessment	
Intern/Affiliation:	Jake Swenson	CEMP/ UM
Faculty Mentor:	Dr. Gregory A. Keoleian	
Year/Sponsor/Mentor:	2001 Steelcase, Grand Rapid, MI	Steve Price
Project:	Alternatives to Packaging for Parts	
Intern/Affiliation:	Hui Ling Lee	Environmental Policy and Economics/ UM
Year/Sponsor/Mentor:	2001 UM Plant - OSEH	Yoshiko Hill/Andrew Berki
Project:	UM Sustainability Assessment and Reporting	
Intern/Affiliation:	Elizabeth Terry	CEMP/ UM
Faculty Mentor:	Dr. Jonathan W. Bulkley, Professor & Co-Director Center for Sustainable Systems Dr. Gregory A. Keoleian, Research Scientist & Co-Director Center for Sustainable Systems	
Year/Sponsor/Mentor:	2001 UM Plant - Utilities	Andrew Berki
Project:	Energy Conservation	
Intern/Affiliation:	Kathleen Grimes	Physics/ UM
Faculty Mentor:	Dr. Gregory A. Keoleian	
Year/Sponsor/Mentor:	2001	
Project:	Technology for Sustainable Environment: Life Cycle Optimization of Vehicle Replacement	
Intern/Affiliation:	Pamela O'Leary	NASA SHARP/SAP
Faculty Mentor:	Dr. Gregory A. Keoleian	
Year/Sponsor/Mentor:	2000 US EPA, Washington DC	Barbara Karn
Project:	Industrial Ecology Database	
Intern/Affiliation:	Christine Bogaerts	Chemical Engineering/ UM
Faculty Mentor:	Dr. Gregory A. Keoleian	
Year/Sponsor/Mentor:	2000 3M Corp., St. Paul, MN	
Project:	Environmental Implications of Switching from the Conventional Drying Oven to a Gap Dryer	
Intern/Affiliation:	Matthew J. Robertson	Chemical Engineering/ UM
Faculty Mentor:		
Year/Sponsor/Mentor:	2000 Center for Sustainable Systems	
Project:	Technology for Sustainable Environment: Life Cycle Optimization of Vehicle Replacement	
Intern/Affiliation:	Sharina Mapleton	NASA SHARP/SAP
Faculty Mentor:	Dr. Gregory A. Keoleian, Research Scientist & Co-Director Center for Sustainable Systems	
Year/Sponsor/Mentor:	2000 3M Corp., St. Paul, MN	Brent Bystrom
Project:	Life Cycle Assessment of a High Performance Cloth	
Intern/Affiliation:	Carly Sarna	Chemical Engineering/ UM
Faculty Mentor:		



Center for Sustainable Systems

Year/Sponsor/Mentor: **2000 Guardian Inds., MI** Michael Turnbull
Project: Re-Validation of the Guardian Industries Sulfur Emissions Model
Intern/Affiliation: **Michael Wagner** Chemical Engineering/ UM
Faculty Mentor: Dr. Gregory A. Keoleian, Research Scientist & Co-Director Center for Sustainable Systems

Year/Sponsor/Mentor: **2000 3M Corp., St. Paul, MN** David J. Schutt
Project: Web Drying: Applications at 3M
Intern/Affiliation: **Catherine Lee** Civil & Environmental Engineering./ UM
Faculty Mentor:

Year/Sponsor/Mentor: **1999 Eastman Kodak Co.** Catie Blackler
Project: Life Cycle Assessment of a Digital Camera
Intern/Affiliation: **Jeff Manternach** University of Michigan
Faculty Mentor: Dr. Gregory A. Keoleian, Research Scientist & Co-Director Center for Sustainable Systems

Year/Sponsor/Mentor: **1999 Center for Sustainable Systems** Greg Keoleian
Project: Electricity Production in Washtenaw County
Intern/Affiliation: **Lauren Moss** Summer Apprenticeship Program
Faculty Mentor: Dr. Gregory A. Keoleian, Research Scientist & Co-Director Center for Sustainable Systems

Year/Sponsor/Mentor: **1998 Chrysler Corporation** Doug Orf
Project: AAMA-Environmental Evaluation of Hydraulic Fluids, Oils and Greases Used in Manufacturing & Maintenance Operations
Intern/Affiliation: **Steven Booth** College of Engineering/UM
Faculty Mentor: Dr. Susan Montgomery, Assistant Professor
Dept. of Chemical Engineering, University of Michigan

Year/Sponsor/Mentor: **1998 Ford Motor Company** Phil Lawrence
Project: AAMA-Environmental Evaluation of Hydraulic Fluids, Oils and Greases Used in Manufacturing & Maintenance Operations
Intern/Affiliation: **Rebecca Fitzgerald** Chemical Engineering/MTU
Faculty Mentor: Dr. Michael Mullins, Professor
Chemical Engineering, Michigan Technological Univ.

Year/Sponsor/Mentor: **1998 MDEQ, Lansing, MI** Wendy Fizner
Project: Michigan Pulp and Paper Environmental Council; Pulp & Paper Case Studies
Intern/Affiliation: **Jeremy Hoeh** Chemical Engineering/ MSU
Faculty Mentor: Dr. Dennis Miller
Chemical Engineering, Michigan State University

Year/Sponsor/Mentor: **1998 General Motors Corp.** Sandy Brewer
Project: AAMA-Environmental Evaluation of Hydraulic Fluids, Oils and Greases Used in Manufacturing & Maintenance Operations
Intern/Affiliation: **Bryon Lawrence** Natural Resources. & Environment / UM
Faculty Mentor: Dr. G. A. Keoleian, Research Director, National Pollution Prevention Center

Year/Sponsor/Mentor: **1998 AAMA: Pollution Reduction Div** Donald Edmunds
Project: AAMA-Environmental Evaluation of Hydraulic Fluids, Oils and Greases Used in Manufacturing & Maintenance Operations
Intern/Affiliation: **Todd Schebor** College of Engineering/ UM
Faculty Mentor: Dr. Gloria Helfand, Associate Professor
School of Natural Resources & Environment, University of Michigan

Year/Sponsor/Mentor: **1997 Chrysler Corporation** Linda Plate
Project: Research Assistance and Case Study Development in Pollution Prevention in the Auto Industry

Intern/Affiliation: **Michael J. Colarossi** Chemical Engineering/ UM
Faculty Mentor: Dr. Philip Savage, Professor, Chemical Engineering, University of Michigan

Year/Sponsor/Mentor: **1997 Waldorf/Rock-Tenn** Michelle Nault
Project: Water/Sewer System P2 at Waldorf Corporation

Intern/Affiliation: **Sara Cox** Environmental Engineering/WMU
Faculty Mentor: Dr. Van Maltby, Professor, Dept. of Environmental Engineering, Western Michigan University

Year/Sponsor/Mentor: **1997 Mead Publishing Paper Division** Kathy Jacoby
Project: Pollution Prevention Opportunities at a Large Pulp and Paper Mill

Intern/Affiliation: **Christopher Edlin** Civil & Environmental Engineering./ UM
Faculty Mentor: Dr. Kurt Paterson, Professor
Dept. of Civil & Environmental Engineering, Michigan Technological U

Year/Sponsor/Mentor: **1997 AAMA** Donald Edmunds
Project: Analysis of Auto Project

Intern/Affiliation: **Scott Grasman** Industrial Engineering/ UM
Faculty Mentor: Dr. John Roberts Birge, Professor & Chair
Dept. of Industrial and Operations Engineering, University of Michigan

Year/Sponsor/Mentor: **1997 Champion International Corp.** Wally Blair
Project: Sewer Loss Monitoring and Minimization

Intern/Affiliation: **Nicole J. Grossen** Chemical Engineering/ MTU
Faculty Mentor: Dr. David Hand, Professor
Dept. of Chemical Engineering, Michigan Technological University

Year/Sponsor/Mentor: **1997 AAMA** Donald Edmunds
Project: Research Assistance & Case Study Development in Pollution Prevention in the Auto Industry

Intern/Affiliation: **Krista Hoversten** Dept. of Engineering/ MTU
Faculty Mentor: Dr. Kurt Paterson, Professor
Dept. of Engineering, Michigan Technological University

Year/Sponsor/Mentor: **1997 General Motors Corporation** Sandy Brewer
Project: Research Assistance & Case Study Development in Pollution Prevention in the Auto Industry

Intern/Affiliation: **Scott Ratz** Chemical Engineering/ UM
Faculty Mentor: Dr. Phil Savage, Professor
Dept. of Chemical Engineering, University of Michigan

Year/Sponsor/Mentor: **1997 Ford Motor Company** Rebecca Messick
Project: Life Cycle Analysis on Magnesium vs Aluminum for Transmission Case Design

Intern/Affiliation: **Peter Reppe** Natural Resources & Environment / UM
Faculty Mentor: Dr. G. A. Keoleian, Research Director
National Pollution Prevention Center

Year/Sponsor/Mentor: **1997 E.B. Eddy** Ms. Chris Lupu
Project: Research Assistance in Pollution Prevention in the Paper Industry

Intern/Affiliation: **Stephanie Schultz** Chemical Engineering/ UM
Faculty Mentor: Dr. Susan Montgomery, Assistant Professor, Chemical Engineering, University of Michigan



Center for Sustainable Systems

Year/Sponsor/Mentor: **1997 Ford Motor Company** Philip Lawrence
Project: Research Assistance and Case Study Development in Pollution Prevention in the Auto Industry

Intern/Affiliation: **Ellen Schwab** Chemical Engineering/ UM
Faculty Mentor: Dr. Johannes Schwank, Professor
Dept. of Chemical Engineering, University of Michigan

Year/Sponsor/Mentor: **1996 Chrysler Corporation** Linda Plate
Project: Identifying the Opportunities to Reduce the Use of Great Lakes Persistent Toxic-Substances at U.S. Automotive Plants

Intern/Affiliation: **Michael J. Colarossi** Chemical Engineering/ UM
Faculty Mentor: Dr. Susan Montgomery, Assistant Professor
Dept. of Chemical Engineering, University of Michigan

Year/Sponsor/Mentor: **1996 AAMA** Donald Edmunds
Project: Identifying the Opportunities to Reduce the Use of Great Lakes Persistent Toxic-Substances at U.S. Automotive Plants

Intern/Affiliation: **Laura M. Diepenhorst** Civil & Environmental Engineering./ UM
Faculty Mentor: Dr. Susan Montgomery, Assistant Professor
Dept. of Chemical Engineering, University of Michigan

Year/Sponsor/Mentor: **1996 Xerox Corporation** Dr. Jack AzaR
Project: Analytical Assistance & Technical Support for the Hazardous Waste & Recyclability Assessments of Xerox-Marketed Products

Intern/Affiliation: **Thomas H. Savage** CEMP / UM
Faculty Mentor: Dr. G.A. Keoleian, Research Director
National Pollution Prevention Center

Year/Sponsor/Mentor: **1996 General Motors Corporation** Sandra Brewer
Project: Identifying the Opportunities to Reduce the Use of Great Lakes Persistent Toxic-Substances at U.S. Automotive Plants

Intern/Affiliation: **Colleen West** Chemical Engineering/ UM
Faculty Mentor: Dr. Susan Montgomery, Assistant Professor
Dept. of Chemical Engineering, University of Michigan

Year/Sponsor/Mentor: **1996 Ford Motor Company** Philip Lawrence
Project: Identifying the Opportunities to Reduce the Use of Great Lakes Persistent Toxic-Substances at U.S. Automotive Plants

Intern/Affiliation: **Kristopher Wiljanen** Chemical Engineering/ UM
Faculty Mentor: Dr. Susan Montgomery, Assistant Professor
Dept. of Chemical Engineering, University of Michigan

Year/Sponsor/Mentor: **1995 Chrysler Corporation** Linda Plate
Project: Best Management Practices in Spray Booth Cleaning

Intern/Affiliation: **Chris Davis** Chemical Engineering/ UM
Faculty Mentor: Dr. John Roberts Birge, Professor & Chair
Dept. of Industrial and Operations Engineering, University of Michigan

Year/Sponsor/Mentor: **1995 Ford Motor Corporation** Philip Lawrence
Project: Best Management Practices in Spray Booth Cleaning

Intern/Affiliation: **Nicole Chardoul** Civil & Environmental Engineering./ UM
Faculty Mentor: Dr. John Roberts Birge, Professor & Chair
Dept. of Industrial and Operations Engineering, University of Michigan

Year/Sponsor/Mentor:	1995	AAMA	Donald Edmunds
Project:	Best Management Practices in Spray Booth Cleaning		
Intern/Affiliation:	Scott Grasman		Industrial Engineering/ UM
Faculty Mentor:	Dr. John Roberts Birge, Professor & Chair, Industrial and Operations Engineering		
Year/Sponsor/Mentor:	1995	General Motors Corporation	Sandra Brewer
Project:	Best Management Practices in Spray Booth Cleaning		
Intern/Affiliation:	Colleen West		Chemical Engineering/ UM
Faculty Mentor:	Dr. Susan Montgomery, Assistant Professor, Chemical Engineering, University of Michigan		
Year/Sponsor/Mentor:	1994	Guardian Industries	Michael Turnbull
Project:	Guardian Industries' Audit Software		
Intern/Affiliation:	Carl Ferguson		CEMP / UM
Faculty Mentor:	Dr. Stuart Hart, Director, Corporate Environmental Management Program, University of MI		
Year/Sponsor/Mentor:	1994	General Motors Corporation	Sandra Brewer
Project:	Auto Body Solvent Wipe Process		
Intern/Affiliation:	Christine Bogaerts		Chemical Engineering/ UM
Faculty Mentor:	Dr. Gregory A. Keoleian, Research Director, National Pollution Prevention Center		
Year/Sponsor/Mentor:	1994	General Motors Corporation	Sandra Brewer
Project:	Auto Body Solvent Wipe Process		
Intern/Affiliation:	Jason Ferns		Chemical Engineering/ UM
Faculty Mentor:	Dr. Susan Montgomery, Assistant Professor, Chemical Engineering, University of Michigan		
Year/Sponsor/Mentor:	1994	3M Corporation	Thomas Zosel
Project:	3M: Waste Minimization		
Intern/Affiliation:	Tricia Ferrell		Chemical Engineering, Washington University
Faculty Mentor:	Dr. William Lanen, Associate Professor, Dept. of Accounting, University of Michigan		
Year/Sponsor/Mentor:	1994	Optical Imaging Systems	Rex Tapp
Project:	Optical Imaging Systems: Pollution Prevention Opportunities in Flat-Panel Display Industry		
Intern/Affiliation:	Jonathan Koch		CEMP / UM
Faculty Mentor:	Dr. G. A. Keoleian, Research Director, National Pollution Prevention Center		
Year/Sponsor/Mentor:	1994	Ford Motor Company	Philip Lawrence
Project:	Auto Body Solvent Wipe Process		
Intern/Affiliation:	Michael Valentine		Chemical Engineering/ UM
Faculty Mentor:	Dr. Susan Montgomery, Assistant Professor, Chemical Engineering, University of Michigan		
Year/Sponsor/Mentor:	1994	Chrysler Corporation	Linda Plate
Project:	Auto Body Solvent Wipe Process		
Intern/Affiliation:	Becky Vaner Eyk		Chemical Engineering/ UM
Faculty Mentor:	Dr. Susan Montgomery, Assistant Professor, Chemical Engineering, University of Michigan		
Year/Sponsor/Mentor:	1993	U.S. Env. Protection Agency	David Kling
Project:	EPA's Comprehensive Pollution Prevention Orientation Slide Show		
Intern/Affiliation:	Holly Evans		Natural Resources & Environment/ UM
Faculty Mentor:	Dr. Jonathan Bulkley, Professor; Director, National Pollution Prevention Center Dept. of Civil & Environmental Engineering, University of Michigan		



Center for Sustainable Systems

Year/Sponsor/Mentor: **1993 Ford Motor Company** Philip Lawrence
Project: Determining Mass Balances in Ford-Wixom's Phosphate Coating System. *Multi-Media CD-ROM

Intern/Affiliation: **Lori Barnard** Chemical Engineering/ UM
Faculty Mentor: Dr. Susan Montgomery, Assistant Professor, Chemical Engineering, University of Michigan

Year/Sponsor/Mentor: **1993 Steelcase, Inc.** David Rinard
Project: Waste Minimization Audit Guide

Intern/Affiliation: **James E. Hensley** Industrial Eng/Grand Valley State University
Faculty Mentor: Ms. Janet Vail
Water Resources Institute

Year/Sponsor/Mentor: **1993 US Environ. Protection Agency** David Kling
Project: EPA's Comprehensive Pollution Prevention Orientation Slide Show

Intern/Affiliation: **Krista Johnsen Leuteritz** Natural Resources & Environment/ UM
Faculty Mentor: Dr. Jonathan Bulkley, Professor; Director, National Pollution Prevention Center
Dept. of Civil & Environmental Engineering, University of Michigan

Year/Sponsor/Mentor: **1993 National Center for Manufacturing Sciences** Clare Vinton
Project: Achieving Environmental Excellence

Intern/Affiliation: **Robert G. Landers** Mechanical Engineering/ UM
Faculty Mentor: Dr. John Ettl, Associate Professor
Dept. of Operations Management, University of Michigan

Year/Sponsor/Mentor: **1992 Ford Motor Company** Philip Lawrence
Project: Total Quality Management: Pollution Prevention as Continuous Improvement at Ford Motor Company

Intern/Affiliation: **Leith Harmon** Industrial & Operations Engineering / UM
Faculty Mentor: Dr. Stephen Pollock, Professor
Dept. of Industrial & Operations Engineering, University of Michigan

Year/Sponsor/Mentor: **1992 Ford Motor Company** Philip Lawrence
Project: Degreaser Replacement at Ford Motor Company's Climate Control Division

Intern/Affiliation: **Adam Larky** Civil & Environmental Engineering./ UM
Faculty Mentor: Dr. Jonathan Bulkley, Professor; Director, National Pollution Prevention Center
Dept. of Civil & Environmental Engineering, University of Michigan