

# **Intern Roster** 1992 – 2022

Year/Sponsor/Mentor: 2022 The Wege Foundation, Steelcase, Maeve Tropf

**Grand Rapids, MI** 

Project: Work with Energy, Climate, and Renewables Team to report Steelcase's annual GHG

emission reductions to the Carbon Disclosure Project and to help set carbon targets for

suppliers in their supply chain.

Intern/Affiliation: Katie Portz M.S. Sustainable Systems

Faculty Mentor: Dr. Gregory A. Keoleian

Year/Sponsor/Mentor: 2022 U-M Center for Sustainable Systems Mary Braun

Project: Update 29 Factsheets on the sustainability of systems that meet human needs by

gathering data on the current patterns of use, environmental impacts and sustainable

alternatives.

Intern/Affiliation: Erik Anderson II M.S. Sustainable Systems

Year/Sponsor/Mentor: 2021 The Wege Foundation, Steelcase, Maeve Tropf

**Grand Rapids, MI** 

Project: Work with Energy, Climate, and Renewables Team to report Steelcase's annual GHG

emission reductions to the Carbon Disclosure Project and to help set carbon targets for

suppliers in their supply chain.

Intern/Affiliation: Matthew Boelens M.S. Sustainable Sys. / M.B.A.

Faculty Mentor: Dr. Gregory A. Keoleian

Year/Sponsor/Mentor: 2021 U-M Center for Sustainable Systems Helaine Hunscher

Project: Update 29 Factsheets on the sustainability of systems that meet human needs by

gathering data on the current patterns of use, environmental impacts and sustainable

alternatives.

Intern/Affiliation: Krystal Krygowski M.S. Sustainable Systems

Year/Sponsor/Mentor: 2020 The Wege Foundation, Steelcase, Lynn Zimmerman

Grand Rapids, MI

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: Muhan Chen M.S. Sustainable Systems

Faculty Mentor: Dr. Gregory A. Keoleian

Year/Sponsor/Mentor: 2020 U-M Center for Sustainable Systems Helaine Hunscher

Project: Update 29 Factsheets on the sustainability of various systems that meet human needs by

gathering data on the current patterns of use, environmental impacts and sustainable

alternatives.

Intern/Affiliation: Connor Cox M.S. Sustainable Sys. / M.B.A.

Year/Sponsor/Mentor: 2019 The Wege Foundation, Steelcase, Lynn Zimmerman

Grand Rapids, MI

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: Yanjun (Leona) Liu M.S. Sustainable Sys. / M.S.E. Env Eng.

Year/Sponsor/Mentor: 2019 U-M Center for Sustainable Systems Helaine Hunscher

Project: Update 29 Factsheets on the sustainability of various systems that meet human needs by

gathering data on the current patterns of use, environmental impacts and sustainable

alternatives.

Intern/Affiliation: Stephen (Simi) Barr M.S. Sustainable Sys. / M.S.E. Space Syst Eng.

Year/Sponsor/Mentor: 2018 The Wege Foundation, Steelcase, Lynn Zimmerman

**Grand Rapids, MI** 

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: Qi Gao M.P.H. Environmental Health Sciences / UM

Faculty Mentor: Dr. Gregory A. Keoleian

Year/Sponsor/Mentor: 2018 U-M Center for Sustainable Systems Helaine Hunscher

Project: Update 29 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: Yanjun (Leona) Liu M.S. Sustainable Sys. / M.S.E. Env Eng.

Year/Sponsor/Mentor: 2017 The Wege Foundation, Steelcase, Lynn Zimmerman

Grand Rapids, MI

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, Dave Rinard

Grand Rapids, MI

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, Dave Rinard

Grand Rapids, MI

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



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, Dave Rinard

**Grand Rapids, MI** 

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, Dave Rinard

Grand Rapids, MI

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, Dave Rinard

Grand Rapids, MI

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, Dave Rinard

**Grand Rapids, MI** 

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

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 Dale Copedge

Lake, MI

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, Dave Rinard

**Grand Rapids, MI** 

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 & Helaine Hunscher

**Alcoa Foundation** 

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 & Helaine Hunscher

**Alcoa Foundation** 

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



Year/Sponsor/Mentor: 2009 The Wege Foundation, Steelcase, Dave Rinard

**Grand Rapids, MI** 

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 & Helaine Hunscher

**Alcoa Foundation** 

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 & Helaine Hunscher

**Alcoa Foundation** 

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 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 M.P.H. Env Health & M.S. Sustain Syst / 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, Dave Rinard & Phil Hester

Grand Rapids, MI

Work on ISO 14,001 implementation, energy conservations initiatives, waste reduction Project:

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

Year/Sponsor/Mentor: Steelcase, Grand Rapids, MI Angela Nahikian

Project: 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.

Intern/Affiliation: Elin Olson M.S. Sustainable Systems / UM

Faculty Mentor: Dr. Gregory A. Keoleian

Year/Sponsor/Mentor: 2008 MDEQ - Honeywell Burdick & Jackson, Dick Davis

Muskegon, MI

Project: Investigate current solvent processing methods and technologies, develop a new

approach and conduct lab-scale experiments to demonstrate effectiveness of new

approach.

Intern/Affiliation: **Andrew Parth** B.S. Chemical Engineering / UM

Faculty Mentor: Dr. Gregory A. Keoleian

Year/Sponsor/Mentor: 2008 **U-M Center for Sustainable Systems** Helaine Hunscher

Project: Update 15 Factsheets by conducting research to gather data on the current patterns of use, environmental impacts and sustainable alternatives. Develop two new Factsheets.

Intern/Affiliation: Alphonse Anderson MSE Mechanical Engineering / UM

Faculty Mentor: Dr. Gregory A. Keoleian

Year/Sponsor/Mentor: 2008 U-M School Nat. Resources & Env. **Duncan Callaway** 

Project: 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.

Intern/Affiliation: Sina Sadeghi Baghsorkhi Sustainable Systems / UM

Faculty Mentor: Dr. Gregory A. Keoleian

Year/Sponsor/Mentor: 2008 IISI - Living Steel Scott Chubbs

Project: Conduct LCA of steel-structured 120 unit residential and retail building in Wuhan, China

Intern/Affiliation: Dual MS-MBA / UM **Julia Koslow** 

Faculty Mentor: Dr. Gregory A. Keoleian

Year/Sponsor/Mentor: 2008 IISI - Living Steel Scott Chubbs

Project: Conduct LCA of steel-structured 120 unit residential and retail building in Wuhan, China

Intern/Affiliation: Alan Bush Sustainable Systems / UM

Faculty Mentor: Dr. Gregory A. Keoleian

Year/Sponsor/Mentor: 2007 Steelcase, Grand Rapids, MI Dave Rinard & Phil Hester

Project: 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.

Intern/Affiliation: Therese Dorau Sustainable Systems / UM



Year/Sponsor/Mentor: 2007 Steelcase, Grand Rapids, MI Denise VanValkenberg

Project: 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.

Intern/Affiliation: Ben Massie Sustainable Systems / UM

Faculty Mentor: Dr. Gregory A. Keoleian

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 Molly Lamrouex & Bethany

Lansing, MI 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 Rapids, 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 Rapids, 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 Dave Mason

Lansing, MI

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, Daniel Kettenbeil

Kalamazoo, MI

Project: Solutions for reduction of redundant energy use

Intern/Affiliation: Kwok Cheong Leung Natural Resources. & Environment / UM

Year/Sponsor/Mentor: 2004 Steelcase, Grand Rapids, 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 Rapids, MI Phil Hester

Project: Environmental profile of recycled content in product lines

Intern/Affiliation: Laura Flanigan CEMP / UM

Faculty Mentor: Dr. Gregory A. Keoleian

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 Rapids, 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 Rapids, 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

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 Rapids, 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



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

Alternatives to Packaging for Parts

**UM Plant - OSEH** 

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 Rapids, MI Steve Price

Project:

Year/Sponsor/Mentor:

Intern/Affiliation: Hui Ling Lee Environmental Policy and Economics/ UM

Yoshiko Hill/Andrew Berki

Project: UM Sustainability Assessment and Reporting

2001

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

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

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

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, 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** 

AAMA-Environmental Evaluation of Hydraulic Fluids, Oils and Greases Used in Project:

Manufacturing & Maintenance Operations

Intern/Affiliation: **Todd Schebor** College of Engineering/UM

Faculty Mentor: Dr. Gloria Helfand, Associate Professor, School of Natural Resources & Environment

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: 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 Univ.

Year/Sponsor/Mentor: **Mead Publishing Paper Division** Kathy Jacoby

Pollution Prevention Opportunities at a Large Pulp and Paper Mill Project:

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

1997 **Donald Edmunds** Year/Sponsor/Mentor: **AAMA** 

Project: **Analysis of Auto Project** 

Intern/Affiliation: **Scott Grasman** Industrial Engineering/ UM

Faculty Mentor: Dr. John Roberts Birge, Professor & Chair, Industrial and Operations Engineering, UM

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, 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: Dept. of Engineering/ MTU **Krista Hoversten** 

Dr. Kurt Paterson, Professor, Dept. of Engineering, Michigan Technological University Faculty Mentor:

Year/Sponsor/Mentor: 1997 **General Motors Corporation** Sandy Brewer

Project:

Research Assistance & Case Study Development in Pollution Prevention in the Auto Industry Intern/Affiliation: Chemical Engineering/ UM **Scott Ratz** 

Dr. Phil Savage, Professor, Dept. of Chemical Engineering, University of Michigan Faculty Mentor:

1997 Year/Sponsor/Mentor: **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

Dr. G. A. Keoleian, Research Director, National Pollution Prevention Center Faculty Mentor:

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

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, 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, 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, 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, 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, Industrial and Operations Engineering, UM

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, Industrial and Operations Engineering, UM

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, UM

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

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

3.00 - 1,7 - 1.00 - 1,7 - 1.00 - 1,7 - 1.00 - 1,7 - 1.00 - 1,7 - 1.00 - 1,7 - 1.00 - 1,7 -

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

1993 US Environ. Protection Agency David Kling

Year/Sponsor/Mentor:

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** Clare Vinton

Sciences

Project: Achieving Environmental Excellence

Intern/Affiliation: **Robert G. Landers** Mechanical Engineering/UM Faculty Mentor: Dr. John Ettlie, 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

1992

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

Philip Lawrence

Year/Sponsor/Mentor: **Ford Motor Company** 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